

APPENDIX 1

REMARK Complex of JP170 and CI2A inhibitor

REMARK Contents of asymmetric unit subtilisin 2x (433 a.a. x 2)

5 REMARK CI2A inhibitor 2x (a.a. 16 - 83 and 21 - 83)

REMARK small peptide (autodigestion product, a.a. KPSLL, 280 - 284)

REMARK Ca ions 6x, H2O 1115 x

REMARK JP170 (SEQ ID NO: 1)

10 REMARK Crystallization conditions: (AMB) Hanging drop vapour diffusion

REMARK method where the drop consists of 2 µl of 15 - 20 mg.ml⁻¹

REMARK protein concentration, 10 mM Na cacodylate - HCl buffer, pH 6.5

15 REMARK and 1 µl of the well solution, 20% w/v PEG 4000, 0.1 M Hepes

REMARK buffer, pH 7.5, 10% v/v isopropanol.

HEADER ----
XXXX

XX-XXX-XX

20 COMPND ---

REMARK 3

REMARK 3 REFINEMENT.

REMARK 3 PROGRAM : REFMAC 5.1.24

REMARK 3 AUTHORS : MURSHUDOV, VAGIN, DODSON

25 REMARK 3

REMARK 3 REFINEMENT TARGET : MAXIMUM LIKELIHOOD

REMARK 3

REMARK 3 DATA USED IN REFINEMENT.

	REMARK	3	RESOLUTION RANGE HIGH (ANGSTROMS) :	1.90
	REMARK	3	RESOLUTION RANGE LOW (ANGSTROMS) :	19.96
	REMARK	3	DATA CUTOFF (SIGMA(F)) :	NONE
	REMARK	3	COMPLETENESS FOR RANGE (%) :	76.65
5	REMARK	3	NUMBER OF REFLECTIONS :	59444
	REMARK	3		
	REMARK	3	FIT TO DATA USED IN REFINEMENT.	
	REMARK	3	CROSS-VALIDATION METHOD :	NULL
	REMARK	3	FREE R VALUE TEST SET SELECTION :	NULL
10	REMARK	3	R VALUE (WORKING + TEST SET) :	0.12256
	REMARK	3	R VALUE (WORKING SET) :	0.12256
	REMARK	3	FREE R VALUE :	NULL
	REMARK	3	FREE R VALUE TEST SET SIZE (%) :	NULL
	REMARK	3	FREE R VALUE TEST SET COUNT :	NULL
15	REMARK	3		
	REMARK	3	FIT IN THE HIGHEST RESOLUTION BIN.	
	REMARK	3	TOTAL NUMBER OF BINS USED :	20
	REMARK	3	BIN RESOLUTION RANGE HIGH :	1.901
	REMARK	3	BIN RESOLUTION RANGE LOW :	1.950
20	REMARK	3	REFLECTION IN BIN (WORKING SET) :	940
	REMARK	3	BIN R VALUE (WORKING SET) :	0.149
	REMARK	3	BIN FREE R VALUE SET COUNT :	0
	REMARK	3	BIN FREE R VALUE :	-999.000
	REMARK	3		
25	REMARK	3	NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.	

REMARK 3 ALL ATOMS : 8694

REMARK 3

REMARK 3 B VALUES.

REMARK 3 FROM WILSON PLOT (A**2) : NULL

5 REMARK 3 MEAN B VALUE (OVERALL, A**2) : 16.479

REMARK 3 OVERALL ANISOTROPIC B VALUE.

REMARK 3 B11 (A**2) : 0.05

REMARK 3 B22 (A**2) : 0.06

REMARK 3 B33 (A**2) : -0.11

10 REMARK 3 B12 (A**2) : 0.00

REMARK 3 B13 (A**2) : 0.00

REMARK 3 B23 (A**2) : 0.00

REMARK 3

REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.

15 REMARK 3 ESU BASED ON R VALUE
(A) : 0.151

REMARK 3 ESU BASED ON FREE R VALUE
(A) : NULL

20 REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD
(A) : 0.052

REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD
(A**2) : 1.828

REMARK 3

REMARK 3 CORRELATION COEFFICIENTS.

25 REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.969

REMARK 3 CORRELATION COEFFICIENT FO-FC FREE : NULL

REMARK 3

	REMARK	3	RMS DEVIATIONS FROM IDEAL VALUES	COUNT	RMS
	WEIGHT				
	REMARK	3	BOND LENGTHS REFINED ATOMS	(A):	7733 ;
	0.014 ; 0.021				
5	REMARK	3	BOND LENGTHS OTHERS	(A):	6857 ;
	0.001 ; 0.020				
	REMARK	3	BOND ANGLES REFINED ATOMS	(DEGREES):	10540 ;
	1.478 ; 1.936				
10	REMARK	3	BOND ANGLES OTHERS	(DEGREES):	15972 ;
	0.815 ; 3.000				
	REMARK	3	TORSION ANGLES, PERIOD 1	(DEGREES):	997
	;15.784 ; 5.000				
	REMARK	3	CHIRAL-CENTER RESTRAINTS	(A**3):	1197 ;
	0.106 ; 0.200				
15	REMARK	3	GENERAL PLANES REFINED ATOMS	(A):	8819 ;
	0.007 ; 0.020				
	REMARK	3	GENERAL PLANES OTHERS	(A):	1500 ;
	0.008 ; 0.020				
20	REMARK	3	NON-BONDED CONTACTS REFINED ATOMS	(A):	1552 ;
	0.221 ; 0.300				
	REMARK	3	NON-BONDED CONTACTS OTHERS	(A):	8282 ;
	0.265 ; 0.300				
	REMARK	3	NON-BONDED TORSION OTHERS	(A):	4417 ;
	0.089 ; 0.500				
25	REMARK	3	H-BOND (X...Y) REFINED ATOMS	(A):	1391 ;
	0.198 ; 0.500				
	REMARK	3	POTENTIAL METAL-ION REFINED ATOMS	(A):	25 ;
	0.145 ; 0.500				
30	REMARK	3	SYMMETRY VDW REFINED ATOMS	(A):	10 ;
	0.129 ; 0.300				
	REMARK	3	SYMMETRY VDW OTHERS	(A):	57 ;
	0.268 ; 0.300				

REMARK 3 SYMMETRY H-BOND REFINED ATOMS (A): 87 ;
0.272 ; 0.500

REMARK 3

5 REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS
WEIGHT

REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A**2): 4985 ;
0.697 ; 1.500

REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 8031 ;
1.205 ; 2.000

10 REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 2746 ;
1.963 ; 3.000

REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 2509 ;
3.180 ; 4.500

REMARK 3

15 REMARK 3 NCS RESTRAINTS STATISTICS

REMARK 3 NUMBER OF NCS GROUPS : NULL

REMARK 3

REMARK 3

REMARK 3 TLS DETAILS

20 REMARK 3 NUMBER OF TLS GROUPS : NULL

REMARK 3

REMARK 3

REMARK 3 BULK SOLVENT MODELLING.

REMARK 3 METHOD USED : BABINET MODEL WITH MASK

25 REMARK 3 PARAMETERS FOR MASK CALCULATION

REMARK 3 VDW PROBE RADIUS : 1.40

REMARK 3 ION PROBE RADIUS : 0.80

REMARK 3 SHRINKAGE RADIUS : 0.80

REMARK	3					
REMARK	3	OTHER REFINEMENT REMARKS:				
REMARK	3	HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS				
REMARK	3					
5	CISPEP	1	GLY A	163	PRO A	164 0.00
	CISPEP	2	ALA A	171	PRO A	172 0.00
	CISPEP	3	PHE A	191	GLY A	192 0.00
	CISPEP	4	ASN A	199	HIS A	200 0.00
	CISPEP	5	GLY A	208	PRO A	209 0.00
10	CISPEP	6	LYS A	216	PRO A	217 0.00
	CISPEP	7	ASP A	236	SER A	237 0.00
	CISPEP	8	ASP A	244	SER A	245 0.00
	CISPEP	9	PHE A	299	PRO A	300 0.00
	CISPEP	10	SER A	327	THR A	328 0.00
15	CISPEP	11	ALA A	386	PRO A	387 0.00
	CISPEP	12	GLU A	414	VAL A	415 0.00
	CISPEP	13	GLY A	423	PRO A	424 0.00
	LINK			ASN B	316	LYS B 318
	gap					
20	LINK			GLU B	330	ALA B 332
	gap					
	LINK			LEU B	337	LYS B 340
	gap					
	LINK			GLU D	330	ALA D 332
25	gap					
	LINK			LEU D	337	LYS D 340
	gap					
	CISPEP	14	GLY C	163	PRO C	164 0.00

	CISPEP	15	ALA	C	171	PRO	C	172		0.00
	CISPEP	16	PHE	C	191	GLY	C	192		0.00
	CISPEP	17	ASN	C	199	HIS	C	200		0.00
	CISPEP	18	GLY	C	208	PRO	C	209		0.00
5	CISPEP	19	LYS	C	216	PRO	C	217		0.00
	CISPEP	20	ASP	C	236	SER	C	237		0.00
	CISPEP	21	ASP	C	244	SER	C	245		0.00
	CISPEP	22	PHE	C	299	PRO	C	300		0.00
	CISPEP	23	SER	C	327	THR	C	328		0.00
10	CISPEP	24	ALA	C	386	PRO	C	387		0.00
	CISPEP	25	GLU	C	414	VAL	C	415		0.00
	CISPEP	26	GLY	C	423	PRO	C	424		0.00
	CRYST1		58.387		151.411		64.054		90.00 117.11 90.00	P 1 21 1
	SCALE1		0.017127		0.000000		0.008768		0.000000	
15	SCALE2		0.000000		0.006605		0.000000		0.000000	
	SCALE3		0.000000		0.000000		0.017539		0.000000	
	HETATM	1	N		ASN	A	1		18.066 20.808 -3.996	1.00
	14.87	A	N							
20	HETATM	2	C9		ASN	A	1		18.461 22.053 -3.689	1.00
	14.47	A	C							
	HETATM	3	O10		ASN	A	1		19.168 22.251 -2.661	1.00
	13.33	A	O							
	HETATM	4	O11		ASN	A	1		18.108 23.029 -4.423	1.00
	14.69	A	O							
25	HETATM	5	CA		ASN	A	1		18.499 19.635 -3.189	1.00
	14.35	A	C							
	HETATM	6	CB		ASN	A	1		18.164 18.329 -3.883	1.00
	14.69	A	C							

	HETATM 14.08	7 A	CG C	ASN A	1	16.670	18.063	-4.031	1.00
	HETATM 12.20	8 A	ND2 N	ASN A	1	16.271	17.100	-5.019	1.00
5	HETATM 14.76	9 A	OD1 O	ASN A	1	15.768	18.701	-3.206	1.00
	HETATM 14.84	10 A	C C	ASN A	1	19.990	19.659	-2.890	1.00
10	HETATM 14.20	11 A	O O	ASN A	1	20.353	19.313	-1.601	1.00
	ATOM 15.84	12 A	N N	ASP A	2	20.881	19.935	-3.834	1.00
	ATOM 16.82	13 A	CA C	ASP A	2	22.306	19.835	-3.520	1.00
15	ATOM 17.53	14 A	CB C	ASP A	2	23.178	20.088	-4.763	1.00
	ATOM 18.18	15 A	CG C	ASP A	2	23.121	18.947	-5.783	1.00
20	ATOM 20.58	16 A	OD1 O	ASP A	2	22.652	17.811	-5.493	1.00
	ATOM 22.02	17 A	OD2 O	ASP A	2	23.544	19.106	-6.931	1.00
	ATOM 17.23	18 A	C C	ASP A	2	22.712	20.816	-2.413	1.00
25	ATOM 18.17	19 A	O O	ASP A	2	23.671	20.562	-1.703	1.00
	ATOM 17.05	20 A	N N	VAL A	3	22.018	21.952	-2.304	1.00
30	ATOM 16.07	21 A	CA C	VAL A	3	22.374	22.945	-1.311	1.00
	ATOM 16.60	22 A	CB C	VAL A	3	21.974	24.356	-1.701	1.00

	ATOM 16.25	23 A	CG1 C	VAL A	3	22.327	25.323	-0.560	1.00
	ATOM 18.81	24 A	CG2 C	VAL A	3	22.676	24.770	-3.003	1.00
5	ATOM 15.65	25 A	C C	VAL A	3	21.749	22.565	0.033	1.00
	ATOM 14.41	26 A	O O	VAL A	3	22.431	22.603	1.090	1.00
10	ATOM 13.75	27 A	N N	ALA A	4	20.497	22.119	-0.012	1.00
	ATOM 14.03	28 A	CA C	ALA A	4	19.824	21.664	1.196	1.00
	ATOM 13.78	29 A	CB C	ALA A	4	18.388	21.260	0.881	1.00
15	ATOM 14.28	30 A	C C	ALA A	4	20.544	20.512	1.876	1.00
	ATOM 14.07	31 A	O O	ALA A	4	20.548	20.406	3.110	1.00
20	ATOM 13.74	32 A	N N	ARG A	5	21.093	19.617	1.064	1.00
	ATOM 14.95	33 A	CA C	ARG A	5	21.807	18.445	1.553	1.00
	ATOM 15.61	34 A	CB C	ARG A	5	22.395	17.709	0.349	1.00
25	ATOM 17.28	35 A	CG C	ARG A	5	23.452	16.639	0.631	1.00
	ATOM 20.73	36 A	CD C	ARG A	5	23.873	15.945	-0.672	1.00
30	ATOM 21.95	37 A	NE N	ARG A	5	24.802	14.852	-0.459	1.00
	ATOM 24.69	38 A	CZ C	ARG A	5	26.128	14.986	-0.513	1.00

	ATOM	39	NH1	ARG	A	5	26.687	16.173	-0.793	1.00
	25.62	A	N							
	ATOM	40	NH2	ARG	A	5	26.898	13.933	-0.290	1.00
	22.96	A	N							
5	ATOM	41	C	ARG	A	5	22.918	18.840	2.515	1.00
	14.83	A	C							
	ATOM	42	O	ARG	A	5	23.135	18.195	3.546	1.00
	14.86	A	O							
10	ATOM	43	N	GLY	A	6	23.641	19.897	2.166	1.00
	15.33	A	N							
	ATOM	44	CA	GLY	A	6	24.677	20.416	3.044	1.00
	15.34	A	C							
	ATOM	45	C	GLY	A	6	24.094	21.124	4.257	1.00
	15.01	A	C							
15	ATOM	46	O	GLY	A	6	24.609	20.980	5.362	1.00
	14.62	A	O							
	ATOM	47	N	ILE	A	7	23.018	21.879	4.062	1.00
	14.44	A	N							
20	ATOM	48	CA	ILE	A	7	22.411	22.613	5.168	1.00
	13.98	A	C							
	ATOM	49	CB	ILE	A	7	21.266	23.505	4.698	1.00
	13.68	A	C							
	ATOM	50	CG1	ILE	A	7	21.813	24.676	3.864	1.00
	13.35	A	C							
25	ATOM	51	CD1	ILE	A	7	20.794	25.294	2.972	1.00
	14.08	A	C							
	ATOM	52	CG2	ILE	A	7	20.511	24.072	5.873	1.00
	12.51	A	C							
30	ATOM	53	C	ILE	A	7	21.970	21.664	6.305	1.00
	15.04	A	C							
	ATOM	54	O	ILE	A	7	22.273	21.906	7.469	1.00
	13.35	A	O							

	ATOM 15.03	55 A	N N	VAL A	8	21.320	20.558	5.952	1.00
	ATOM 14.89	56 A	CA C	VAL A	8	20.795	19.628	6.969	1.00
5	ATOM 14.63	57 A	CB C	VAL A	8	19.419	19.047	6.545	1.00
	ATOM 14.63	58 A	CG1 C	VAL A	8	18.472	20.135	6.246	1.00
10	ATOM 15.54	59 A	CG2 C	VAL A	8	19.526	18.151	5.333	1.00
	ATOM 14.75	60 A	C C	VAL A	8	21.770	18.511	7.356	1.00
	ATOM 15.23	61 A	O O	VAL A	8	21.438	17.645	8.168	1.00
15	ATOM 14.02	62 A	N N	LYS A	9	22.983	18.568	6.804	1.00
	ATOM 14.55	63 A	CA C	LYS A	9	24.061	17.627	7.118	1.00
20	ATOM 15.28	64 A	CB C	LYS A	9	24.374	17.560	8.621	1.00
	ATOM 18.34	65 A	CG C	LYS A	9	24.553	18.888	9.299	1.00
	ATOM 23.66	66 A	CD C	LYS A	9	25.757	19.608	8.810	1.00
25	ATOM 28.33	67 A	CE C	LYS A	9	26.025	20.904	9.618	1.00
	ATOM 31.91	68 A	NZ N	LYS A	9	27.283	21.559	9.079	1.00
30	ATOM 13.77	69 A	C C	LYS A	9	23.798	16.226	6.616	1.00
	ATOM 13.96	70 A	O O	LYS A	9	24.391	15.256	7.132	1.00

	ATOM	71	N	ALA	A	10	22.979	16.109	5.569	1.00
	13.98	A	N							
	ATOM	72	CA	ALA	A	10	22.816	14.830	4.886	1.00
	14.34	A	C							
5	ATOM	73	CB	ALA	A	10	21.649	14.866	3.848	1.00
	14.47	A	C							
	ATOM	74	C	ALA	A	10	24.141	14.437	4.205	1.00
	14.55	A	C							
10	ATOM	75	O	ALA	A	10	24.409	13.264	4.015	1.00
	13.73	A	O							
	ATOM	76	N	ASP	A	11	24.967	15.423	3.860	1.00
	16.04	A	N							
	ATOM	77	CA	ASP	A	11	26.278	15.153	3.265	1.00
	17.11	A	C							
15	ATOM	78	CB	ASP	A	11	26.899	16.419	2.667	1.00
	17.53	A	C							
	ATOM	79	CG	ASP	A	11	27.059	17.547	3.680	1.00
	19.89	A	C							
20	ATOM	80	OD1	ASP	A	11	27.845	18.461	3.375	1.00
	23.81	A	O							
	ATOM	81	OD2	ASP	A	11	26.434	17.635	4.773	1.00
	20.19	A	O							
	ATOM	82	C	ASP	A	11	27.219	14.489	4.285	1.00
	17.57	A	C							
25	ATOM	83	O	ASP	A	11	27.941	13.540	3.947	1.00
	17.08	A	O							
	ATOM	84	N	VAL	A	12	27.153	14.945	5.528	1.00
	17.31	A	N							
30	ATOM	85	CA	VAL	A	12	27.926	14.338	6.607	1.00
	17.86	A	C							
	ATOM	86	CB	VAL	A	12	27.850	15.193	7.893	1.00
	18.12	A	C							

	ATOM 18.00	87 A	CG1 C	VAL A	12	28.577	14.533	9.081	1.00
	ATOM 19.36	88 A	CG2 C	VAL A	12	28.385	16.633	7.631	1.00
5	ATOM 18.14	89 A	C C	VAL A	12	27.428	12.898	6.835	1.00
	ATOM 18.38	90 A	O O	VAL A	12	28.233	11.956	6.925	1.00
10	ATOM 17.13	91 A	N N	ALA A	13	26.117	12.696	6.870	1.00
	ATOM 17.08	92 A	CA C	ALA A	13	25.572	11.353	7.076	1.00
	ATOM 17.00	93 A	CB C	ALA A	13	24.070	11.400	7.101	1.00
15	ATOM 17.57	94 A	C C	ALA A	13	26.044	10.394	5.981	1.00
	ATOM 16.79	95 A	O O	ALA A	13	26.472	9.237	6.254	1.00
20	ATOM 17.24	96 A	N N	GLN A	14	25.934	10.862	4.740	1.00
	ATOM 17.55	97 A	CA C	GLN A	14	26.420	10.107	3.582	1.00
	ATOM 17.74	98 A	CB C	GLN A	14	25.972	10.825	2.309	1.00
25	ATOM 17.61	99 A	CG C	GLN A	14	24.485	10.673	2.031	1.00
	ATOM 20.02	100 A	CD C	GLN A	14	23.995	11.535	0.887	1.00
30	ATOM 19.60	101 A	OE1 O	GLN A	14	24.788	11.949	0.028	1.00
	ATOM 19.07	102 A	NE2 N	GLN A	14	22.679	11.789	0.850	1.00

	ATOM 18.95	103 A	C C	GLN A	14	27.949	9.876	3.576	1.00
	ATOM 18.61	104 A	O O	GLN A	14	28.413	8.729	3.489	1.00
5	ATOM 19.73	105 A	N N	ASN A	15	28.730	10.950	3.658	1.00
	ATOM 20.71	106 A	CA C	ASN A	15	30.185	10.847	3.469	1.00
10	ATOM 20.45	107 A	CB C	ASN A	15	30.828	12.222	3.244	1.00
	ATOM 22.21	108 A	CG C	ASN A	15	30.404	12.869	1.959	1.00
	ATOM 25.39	109 A	OD1 O	ASN A	15	30.098	12.201	0.976	1.00
15	ATOM 23.97	110 A	ND2 N	ASN A	15	30.390	14.182	1.953	1.00
	ATOM 20.49	111 A	C C	ASN A	15	30.865	10.185	4.653	1.00
20	ATOM 21.06	112 A	O O	ASN A	15	31.705	9.362	4.469	1.00
	ATOM 21.00	113 A	N N	ASN A	16	30.495	10.559	5.869	1.00
	ATOM 21.90	114 A	CA C	ASN A	16	31.148	10.056	7.073	1.00
25	ATOM 22.29	115 A	CB C	ASN A	16	31.205	11.146	8.136	1.00
	ATOM 26.21	116 A	CG C	ASN A	16	32.100	12.313	7.751	1.00
30	ATOM 32.71	117 A	OD1 O	ASN A	16	32.261	13.260	8.533	1.00
	ATOM 28.57	118 A	ND2 N	ASN A	16	32.672	12.268	6.567	1.00

	ATOM	119	C	ASN	A	16	30.491	8.811	7.692	1.00
	21.95	A	C							
	ATOM	120	O	ASN	A	16	31.152	8.065	8.404	1.00
	22.21	A	O							
5	ATOM	121	N	PHE	A	17	29.203	8.578	7.438	1.00
	20.66	A	N							
	ATOM	122	CA	PHE	A	17	28.550	7.392	8.003	1.00
	20.24	A	C							
10	ATOM	123	CB	PHE	A	17	27.415	7.815	8.938	1.00
	21.09	A	C							
	ATOM	124	CG	PHE	A	17	27.890	8.591	10.134	1.00
	19.81	A	C							
	ATOM	125	CD1	PHE	A	17	28.110	7.953	11.348	1.00
	24.93	A	C							
15	ATOM	126	CE1	PHE	A	17	28.556	8.679	12.459	1.00
	25.33	A	C							
	ATOM	127	CZ	PHE	A	17	28.779	10.016	12.344	1.00
	23.90	A	C							
20	ATOM	128	CE2	PHE	A	17	28.564	10.651	11.155	1.00
	22.65	A	C							
	ATOM	129	CD2	PHE	A	17	28.111	9.936	10.052	1.00
	20.02	A	C							
	ATOM	130	C	PHE	A	17	28.061	6.385	6.977	1.00
	19.13	A	C							
25	ATOM	131	O	PHE	A	17	27.607	5.336	7.337	1.00
	20.18	A	O							
	ATOM	132	N	GLY	A	18	28.205	6.685	5.692	1.00
	17.84	A	N							
30	ATOM	133	CA	GLY	A	18	27.740	5.790	4.640	1.00
	17.25	A	C							
	ATOM	134	C	GLY	A	18	26.220	5.654	4.496	1.00
	16.27	A	C							

	ATOM 14.47	135 A	O O	GLY A	18	25.755	4.667	3.948	1.00
	ATOM 15.24	136 A	N N	LEU A	19	25.453	6.651	4.955	1.00
5	ATOM 14.35	137 A	CA C	LEU A	19	23.980	6.550	5.007	1.00
	ATOM 14.71	138 A	CB C	LEU A	19	23.456	7.222	6.270	1.00
10	ATOM 15.58	139 A	CG C	LEU A	19	24.013	6.680	7.569	1.00
	ATOM 16.09	140 A	CD1 C	LEU A	19	23.691	7.633	8.721	1.00
	ATOM 15.86	141 A	CD2 C	LEU A	19	23.417	5.294	7.793	1.00
15	ATOM 13.82	142 A	C C	LEU A	19	23.305	7.203	3.820	1.00
	ATOM 13.96	143 A	O O	LEU A	19	23.183	8.427	3.775	1.00
20	ATOM 13.81	144 A	N N	TYR A	20	22.874	6.400	2.854	1.00
	ATOM 14.22	145 A	CA C	TYR A	20	22.156	6.917	1.714	1.00
	ATOM 14.36	146 A	CB C	TYR A	20	22.841	6.499	0.386	1.00
25	ATOM 14.09	147 A	CG C	TYR A	20	24.254	7.034	0.241	1.00
	ATOM 16.48	148 A	CD1 C	TYR A	20	25.351	6.353	0.792	1.00
30	ATOM 16.91	149 A	CE1 C	TYR A	20	26.661	6.858	0.663	1.00
	ATOM 18.57	150 A	CZ C	TYR A	20	26.859	8.041	-0.034	1.00

	ATOM	151	OH	TYR	A	20	28.126	8.567	-0.171	1.00
	21.21	A	O							
	ATOM	152	CE2	TYR	A	20	25.788	8.735	-0.575	1.00
	17.45	A	C							
5	ATOM	153	CD2	TYR	A	20	24.495	8.217	-0.461	1.00
	16.03	A	C							
	ATOM	154	C	TYR	A	20	20.715	6.433	1.702	1.00
	14.55	A	C							
10	ATOM	155	O	TYR	A	20	19.994	6.688	0.723	1.00
	14.48	A	O							
	ATOM	156	N	GLY	A	21	20.297	5.710	2.746	1.00
	14.18	A	N							
	ATOM	157	CA	GLY	A	21	18.947	5.172	2.802	1.00
	14.23	A	C							
15	ATOM	158	C	GLY	A	21	18.749	3.775	2.207	1.00
	14.56	A	C							
	ATOM	159	O	GLY	A	21	17.611	3.315	2.054	1.00
	13.53	A	O							
20	ATOM	160	N	GLN	A	22	19.838	3.084	1.883	1.00
	14.57	A	N							
	ATOM	161	CA	GLN	A	22	19.722	1.726	1.334	1.00
	14.82	A	C							
	ATOM	162	CB	GLN	A	22	21.095	1.130	0.978	1.00
	15.45	A	C							
25	ATOM	163	CG	GLN	A	22	21.054	-0.151	0.150	1.00
	17.91	A	C							
	ATOM	164	CD	GLN	A	22	20.669	-1.376	0.976	1.00
	21.79	A	C							
30	ATOM	165	OE1	GLN	A	22	20.892	-1.414	2.185	1.00
	22.42	A	O							
	ATOM	166	NE2	GLN	A	22	20.091	-2.379	0.317	1.00
	23.11	A	N							

	ATOM 14.04	167 A	C C	GLN A	22	19.011	0.831	2.331	1.00
	ATOM 14.39	168 A	O O	GLN A	22	19.341	0.824	3.516	1.00
5	ATOM 14.26	169 A	N N	GLY A	23	18.019	0.110	1.836	1.00
	ATOM 14.81	170 A	CA C	GLY A	23	17.236	-0.859	2.628	1.00
10	ATOM 14.12	171 A	C C	GLY A	23	15.957	-0.245	3.176	1.00
	ATOM 14.17	172 A	O O	GLY A	23	15.086	-0.948	3.718	1.00
	ATOM 13.54	173 A	N N	GLN A	24	15.836	1.077	3.057	1.00
15	ATOM 13.27	174 A	CA C	GLN A	24	14.620	1.773	3.500	1.00
	ATOM 12.64	175 A	CB C	GLN A	24	14.963	3.090	4.182	1.00
20	ATOM 13.46	176 A	CG C	GLN A	24	15.806	2.945	5.450	1.00
	ATOM 15.72	177 A	CD C	GLN A	24	15.150	2.100	6.505	1.00
	ATOM 14.73	178 A	OE1 O	GLN A	24	14.015	2.387	6.921	1.00
25	ATOM 13.89	179 A	NE2 N	GLN A	24	15.839	1.026	6.927	1.00
	ATOM 13.19	180 A	C C	GLN A	24	13.619	2.022	2.352	1.00
30	ATOM 13.48	181 A	O O	GLN A	24	14.005	2.126	1.184	1.00
	ATOM 13.28	182 A	N N	ILE A	25	12.324	2.066	2.692	1.00

	ATOM 13.25	183 A	CA C	ILE A	25	11.280	2.319	1.720	1.00
	ATOM 13.64	184 A	CB C	ILE A	25	10.404	1.077	1.507	1.00
5	ATOM 15.44	185 A	CG1 C	ILE A	25	11.267	-0.108	1.030	1.00
	ATOM 14.73	186 A	CD1 C	ILE A	25	10.508	-1.518	0.962	1.00
10	ATOM 13.37	187 A	CG2 C	ILE A	25	9.303	1.387	0.503	1.00
	ATOM 13.24	188 A	C C	ILE A	25	10.447	3.491	2.209	1.00
	ATOM 12.93	189 A	O O	ILE A	25	9.884	3.430	3.285	1.00
15	ATOM 12.43	190 A	N N	VAL A	26	10.438	4.573	1.432	1.00
	ATOM 12.49	191 A	CA C	VAL A	26	9.656	5.754	1.737	1.00
20	ATOM 12.90	192 A	CB C	VAL A	26	10.480	7.034	1.585	1.00
	ATOM 11.57	193 A	CG1 C	VAL A	26	9.671	8.231	2.059	1.00
	ATOM 15.53	194 A	CG2 C	VAL A	26	11.796	6.928	2.395	1.00
25	ATOM 12.34	195 A	C C	VAL A	26	8.465	5.823	0.804	1.00
	ATOM 11.99	196 A	O O	VAL A	26	8.601	5.646	-0.418	1.00
30	ATOM 12.40	197 A	N N	ALA A	27	7.297	6.044	1.387	1.00
	ATOM 12.49	198 A	CA C	ALA A	27	6.080	6.289	0.624	1.00

	ATOM 11.39	199 A	CB C	ALA A	27	4.846	5.650	1.284	1.00
	ATOM 12.17	200 A	C C	ALA A	27	5.892	7.790	0.546	1.00
5	ATOM 11.39	201 A	O O	ALA A	27	6.077	8.501	1.526	1.00
	ATOM 11.79	202 A	N N	VAL A	28	5.540	8.243	-0.643	1.00
10	ATOM 11.63	203 A	CA C	VAL A	28	5.168	9.612	-0.910	1.00
	ATOM 11.56	204 A	CB C	VAL A	28	6.054	10.176	-2.003	1.00
	ATOM 12.77	205 A	CG1 C	VAL A	28	5.629	11.625	-2.440	1.00
15	ATOM 11.95	206 A	CG2 C	VAL A	28	7.514	10.079	-1.594	1.00
	ATOM 11.23	207 A	C C	VAL A	28	3.729	9.580	-1.458	1.00
20	ATOM 10.72	208 A	O O	VAL A	28	3.470	8.936	-2.459	1.00
	ATOM 10.64	209 A	N N	ALA A	29	2.817	10.294	-0.831	1.00
	ATOM 11.32	210 A	CA C	ALA A	29	1.468	10.435	-1.365	1.00
25	ATOM 11.33	211 A	CB C	ALA A	29	0.441	10.151	-0.298	1.00
	ATOM 11.35	212 A	C C	ALA A	29	1.326	11.842	-1.909	1.00
30	ATOM 11.19	213 A	O O	ALA A	29	1.404	12.826	-1.161	1.00
	ATOM 11.71	214 A	N N	ASP A	30	1.186	11.937	-3.229	1.00

	ATOM 11.52	215 A	CA C	ASP A	30	1.266	13.221	-3.917	1.00
	ATOM 11.37	216 A	CB C	ASP A	30	2.718	13.715	-3.958	1.00
5	ATOM 12.40	217 A	CG C	ASP A	30	2.802	15.221	-3.852	1.00
	ATOM 12.15	218 A	OD1 O	ASP A	30	3.385	15.726	-2.871	1.00
10	ATOM 14.39	219 A	OD2 O	ASP A	30	2.226	15.973	-4.682	1.00
	ATOM 12.41	220 A	C C	ASP A	30	0.665	13.113	-5.327	1.00
	ATOM 12.89	221 A	O O	ASP A	30	0.068	12.086	-5.671	1.00
15	ATOM 12.52	222 A	N N	THR A	31	0.811	14.162	-6.151	1.00
	ATOM 11.62	223 A	CA C	THR A	31	-0.004	14.263	-7.353	1.00
20	ATOM 11.72	224 A	CB C	THR A	31	0.302	15.554	-8.182	1.00
	ATOM 11.44	225 A	OG1 O	THR A	31	1.709	15.702	-8.423	1.00
	ATOM 11.85	226 A	CG2 C	THR A	31	-0.099	16.789	-7.424	1.00
25	ATOM 12.59	227 A	C C	THR A	31	0.126	13.041	-8.225	1.00
	ATOM 12.63	228 A	O O	THR A	31	-0.868	12.341	-8.494	1.00
30	ATOM 12.03	229 A	N N	GLY A	32	1.360	12.810	-8.665	1.00
	ATOM 12.81	230 A	CA C	GLY A	32	1.694	11.788	-9.617	1.00

	ATOM 13.22	231 A	C C	GLY A	32	3.202	11.763	-9.729	1.00
	ATOM 12.83	232 A	O O	GLY A	32	3.885	12.607	-9.135	1.00
5	ATOM 13.41	233 A	N N	LEU A	33	3.711	10.813	-10.501	1.00
	ATOM 13.86	234 A	CA C	LEU A	33	5.139	10.622	-10.678	1.00
10	ATOM 13.74	235 A	CB C	LEU A	33	5.625	9.397	-9.899	1.00
	ATOM 14.12	236 A	CG C	LEU A	33	7.148	9.234	-9.900	1.00
	ATOM 13.99	237 A	CD1 C	LEU A	33	7.768	10.273	-8.964	1.00
15	ATOM 15.42	238 A	CD2 C	LEU A	33	7.497	7.818	-9.437	1.00
	ATOM 13.89	239 A	C C	LEU A	33	5.517	10.505	-12.151	1.00
20	ATOM 14.14	240 A	O O	LEU A	33	5.374	9.444	-12.765	1.00
	ATOM 14.55	241 A	N N	ASP A	34	6.009	11.612	-12.696	1.00
	ATOM 14.62	242 A	CA C	ASP A	34	6.455	11.701	-14.087	1.00
25	ATOM 14.72	243 A	CB C	ASP A	34	7.899	11.201	-14.224	1.00
	ATOM 15.30	244 A	CG C	ASP A	34	8.516	11.532	-15.598	1.00
30	ATOM 14.31	245 A	OD1 O	ASP A	34	9.260	10.694	-16.148	1.00
	ATOM 17.33	246 A	OD2 O	ASP A	34	8.268	12.602	-16.207	1.00

	ATOM 14.94	247 A	C C	ASP A	34	5.470	11.016	-15.060	1.00
	ATOM 15.39	248 A	O O	ASP A	34	4.297	11.415	-15.124	1.00
5	ATOM 16.25	249 A	N N	THR A	35	5.927	10.013	-15.816	1.00
	ATOM 16.50	250 A	CA C	THR A	35	5.083	9.340	-16.813	1.00
10	ATOM 17.03	251 A	CB C	THR A	35	5.912	8.471	-17.786	1.00
	ATOM 17.34	252 A	OG1 O	THR A	35	6.700	7.514	-17.051	1.00
	ATOM 17.53	253 A	CG2 C	THR A	35	6.922	9.300	-18.593	1.00
15	ATOM 17.26	254 A	C C	THR A	35	4.005	8.437	-16.229	1.00
	ATOM 15.49	255 A	O O	THR A	35	3.111	7.992	-16.946	1.00
20	ATOM 16.59	256 A	N N	GLY A	36	4.104	8.104	-14.948	1.00
	ATOM 16.76	257 A	CA C	GLY A	36	3.094	7.259	-14.360	1.00
	ATOM 17.58	258 A	C C	GLY A	36	3.308	5.802	-14.660	1.00
25	ATOM 17.55	259 A	O O	GLY A	36	2.432	4.984	-14.383	1.00
	ATOM 18.31	260 A	N N	ARG A	37	4.473	5.465	-15.200	1.00
30	ATOM 19.42	261 A	CA C	ARG A	37	4.748	4.091	-15.575	1.00
	ATOM 20.37	262 A	CB C	ARG A	37	4.763	3.940	-17.088	1.00

	ATOM	263	CG	ARG	A	37	3.436	4.298	-17.742	1.00
	23.71	A	C							
	ATOM	264	CD	ARG	A	37	3.283	3.740	-19.140	1.00
	31.29	A	C							
5	ATOM	265	NE	ARG	A	37	4.324	4.233	-20.024	1.00
	34.29	A	N							
	ATOM	266	CZ	ARG	A	37	4.322	5.434	-20.575	1.00
	38.63	A	C							
10	ATOM	267	NH1	ARG	A	37	5.331	5.792	-21.361	1.00
	39.90	A	N							
	ATOM	268	NH2	ARG	A	37	3.305	6.273	-20.362	1.00
	40.23	A	N							
	ATOM	269	C	ARG	A	37	6.072	3.661	-14.998	1.00
	19.41	A	C							
15	ATOM	270	O	ARG	A	37	7.065	4.354	-15.150	1.00
	18.12	A	O							
	ATOM	271	N	ASN	A	38	6.067	2.506	-14.334	1.00
	19.47	A	N							
20	ATOM	272	CA	ASN	A	38	7.254	1.998	-13.703	1.00
	20.37	A	C							
	ATOM	273	CB	ASN	A	38	6.917	1.215	-12.431	1.00
	20.71	A	C							
	ATOM	274	CG	ASN	A	38	8.161	0.841	-11.658	1.00
	21.12	A	C							
25	ATOM	275	OD1	ASN	A	38	9.248	1.337	-11.968	1.00
	18.41	A	O							
	ATOM	276	ND2	ASN	A	38	8.023	-0.072	-10.684	1.00
	20.60	A	N							
30	ATOM	277	C	ASN	A	38	7.984	1.134	-14.700	1.00
	21.21	A	C							
	ATOM	278	O	ASN	A	38	7.918	-0.099	-14.638	1.00
	21.03	A	O							

	ATOM	279	N	ASP	A	39	8.659	1.806	-15.625	1.00
	21.69	A	N							
	ATOM	280	CA	ASP	A	39	9.363	1.158	-16.718	1.00
	23.22	A	C							
5	ATOM	281	CB	ASP	A	39	8.405	0.839	-17.882	1.00
	23.19	A	C							
	ATOM	282	CG	ASP	A	39	7.806	2.082	-18.526	1.00
	24.66	A	C							
10	ATOM	283	OD1	ASP	A	39	6.796	1.945	-19.248	1.00
	26.50	A	O							
	ATOM	284	OD2	ASP	A	39	8.246	3.239	-18.372	1.00
	27.03	A	O							
	ATOM	285	C	ASP	A	39	10.480	2.075	-17.156	1.00
	24.00	A	C							
15	ATOM	286	O	ASP	A	39	10.843	3.004	-16.434	1.00
	23.68	A	O							
	ATOM	287	N	SER	A	40	11.003	1.832	-18.355	1.00
	24.67	A	N							
20	ATOM	288	CA	SER	A	40	12.166	2.539	-18.847	1.00
	24.80	A	C							
	ATOM	289	CB	SER	A	40	12.777	1.766	-20.041	1.00
	25.30	A	C							
	ATOM	290	OG	SER	A	40	11.925	1.881	-21.163	1.00
	25.60	A	O							
25	ATOM	291	C	SER	A	40	11.815	3.984	-19.228	1.00
	23.51	A	C							
	ATOM	292	O	SER	A	40	12.687	4.805	-19.375	1.00
	24.41	A	O							
30	ATOM	293	N	SER	A	41	10.532	4.308	-19.317	1.00
	23.14	A	N							
	ATOM	294	CA	SER	A	41	10.097	5.670	-19.621	1.00
	21.75	A	C							

	ATOM	295	CB	SER	A	41	8.620	5.679	-20.037	1.00
	22.84	A	C							
	ATOM	296	OG	SER	A	41	7.725	5.739	-18.919	1.00
	21.43	A	O							
5	ATOM	297	C	SER	A	41	10.262	6.639	-18.427	1.00
	21.13	A	C							
	ATOM	298	O	SER	A	41	10.299	7.863	-18.603	1.00
	19.88	A	O							
10	ATOM	299	N	MET	A	42	10.359	6.079	-17.223	1.00
	19.68	A	N							
	ATOM	300	CA	MET	A	42	10.381	6.882	-15.996	1.00
	18.70	A	C							
	ATOM	301	CB	MET	A	42	10.295	5.949	-14.782	1.00
	18.20	A	C							
15	ATOM	302	CG	MET	A	42	10.451	6.626	-13.423	1.00
	17.87	A	C							
	ATOM	303	SD	MET	A	42	9.190	7.804	-13.030	1.00
	16.31	A	S							
20	ATOM	304	CE	MET	A	42	7.658	6.844	-13.134	1.00
	15.38	A	C							
	ATOM	305	C	MET	A	42	11.607	7.779	-15.897	1.00
	17.89	A	C							
	ATOM	306	O	MET	A	42	12.728	7.390	-16.223	1.00
	17.28	A	O							
25	ATOM	307	N	HIS	A	43	11.381	8.998	-15.421	1.00
	17.69	A	N							
	ATOM	308	CA	HIS	A	43	12.479	9.903	-15.081	1.00
	17.38	A	C							
30	ATOM	309	CB	HIS	A	43	11.942	11.020	-14.196	1.00
	17.29	A	C							
	ATOM	310	CG	HIS	A	43	12.896	12.155	-13.981	1.00
	16.73	A	C							

	ATOM 16.98	311 A	ND1 N	HIS A	43	12.576	13.456	-14.321	1.00
	ATOM 13.61	312 A	CE1 C	HIS A	43	13.566	14.257	-13.971	1.00
5	ATOM 17.49	313 A	NE2 N	HIS A	43	14.521	13.523	-13.426	1.00
	ATOM 13.70	314 A	CD2 C	HIS A	43	14.113	12.207	-13.397	1.00
10	ATOM 16.64	315 A	C C	HIS A	43	13.647	9.209	-14.381	1.00
	ATOM 15.82	316 A	O O	HIS A	43	13.453	8.389	-13.479	1.00
	ATOM 16.35	317 A	N N	GLU A	44	14.858	9.559	-14.818	1.00
15	ATOM 16.74	318 A	CA C	GLU A	44	16.112	8.985	-14.358	1.00
	ATOM 17.71	319 A	CB C	GLU A	44	17.293	9.763	-14.988	1.00
20	ATOM 18.20	320 A	CG C	GLU A	44	17.268	11.270	-14.753	1.00
	ATOM 22.20	321 A	CD C	GLU A	44	18.445	12.004	-15.418	1.00
	ATOM 20.94	322 A	OE1 O	GLU A	44	18.997	11.455	-16.397	1.00
25	ATOM 20.93	323 A	OE2 O	GLU A	44	18.843	13.110	-14.933	1.00
	ATOM 17.11	324 A	C C	GLU A	44	16.280	8.982	-12.823	1.00
30	ATOM 17.08	325 A	O O	GLU A	44	16.944	8.104	-12.259	1.00
	ATOM 16.39	326 A	N N	ALA A	45	15.665	9.954	-12.152	1.00

	ATOM	327	CA	ALA	A	45	15.774	10.061	-10.696	1.00
	16.01	A	C							
	ATOM	328	CB	ALA	A	45	15.122	11.354	-10.198	1.00
	15.44	A	C							
5	ATOM	329	C	ALA	A	45	15.155	8.864	-9.971	1.00
	16.39	A	C							
	ATOM	330	O	ALA	A	45	15.538	8.564	-8.857	1.00
	14.42	A	O							
10	ATOM	331	N	PHE	A	46	14.184	8.218	-10.595	1.00
	16.01	A	N							
	ATOM	332	CA	PHE	A	46	13.411	7.139	-9.971	1.00
	16.28	A	C							
	ATOM	333	CB	PHE	A	46	11.958	7.562	-9.882	1.00
	16.14	A	C							
15	ATOM	334	CG	PHE	A	46	11.780	8.959	-9.396	1.00
	14.90	A	C							
	ATOM	335	CD1	PHE	A	46	12.036	9.275	-8.078	1.00
	14.17	A	C							
20	ATOM	336	CE1	PHE	A	46	11.897	10.586	-7.628	1.00
	13.19	A	C							
	ATOM	337	CZ	PHE	A	46	11.525	11.592	-8.504	1.00
	14.92	A	C							
	ATOM	338	CE2	PHE	A	46	11.291	11.299	-9.809	1.00
	16.01	A	C							
25	ATOM	339	CD2	PHE	A	46	11.416	9.971	-10.261	1.00
	15.93	A	C							
	ATOM	340	C	PHE	A	46	13.466	5.791	-10.697	1.00
	17.23	A	C							
30	ATOM	341	O	PHE	A	46	13.017	4.764	-10.172	1.00
	16.06	A	O							
	ATOM	342	N	ARG	A	47	13.986	5.781	-11.917	1.00
	18.87	A	N							

	ATOM	343	CA	ARG	A	47	13.963	4.566	-12.723	1.00
	20.32	A	C							
	ATOM	344	CB	ARG	A	47	14.659	4.833	-14.062	1.00
	21.00	A	C							
5	ATOM	345	CG	ARG	A	47	14.309	3.871	-15.173	1.00
	24.13	A	C							
	ATOM	346	CD	ARG	A	47	14.468	4.517	-16.570	1.00
	28.53	A	C							
10	ATOM	347	NE	ARG	A	47	15.803	5.031	-16.813	1.00
	32.22	A	N							
	ATOM	348	CZ	ARG	A	47	16.105	6.229	-17.359	1.00
	34.45	A	C							
	ATOM	349	NH1	ARG	A	47	15.171	7.109	-17.703	1.00
	33.97	A	N							
15	ATOM	350	NH2	ARG	A	47	17.384	6.558	-17.527	1.00
	33.82	A	N							
	ATOM	351	C	ARG	A	47	14.674	3.437	-12.000	1.00
	20.49	A	C							
20	ATOM	352	O	ARG	A	47	15.784	3.619	-11.523	1.00
	21.38	A	O							
	ATOM	353	N	GLY	A	48	14.032	2.280	-11.898	1.00
	21.45	A	N							
	ATOM	354	CA	GLY	A	48	14.642	1.105	-11.274	1.00
	21.59	A	C							
25	ATOM	355	C	GLY	A	48	14.583	1.091	-9.741	1.00
	21.98	A	C							
	ATOM	356	O	GLY	A	48	15.072	0.145	-9.102	1.00
	21.74	A	O							
30	ATOM	357	N	LYS	A	49	13.984	2.117	-9.136	1.00
	21.05	A	N							
	ATOM	358	CA	LYS	A	49	13.950	2.197	-7.662	1.00
	20.90	A	C							

	ATOM 22.03	359 A	CB C	LYS A	49	14.915	3.305	-7.180	1.00
	ATOM 24.83	360 A	CG C	LYS A	49	14.366	4.713	-7.161	1.00
5	ATOM 27.45	361 A	CD C	LYS A	49	15.447	5.815	-6.761	1.00
	ATOM 27.82	362 A	CE C	LYS A	49	15.957	5.680	-5.358	1.00
10	ATOM 28.25	363 A	NZ N	LYS A	49	17.024	4.667	-5.220	1.00
	ATOM 19.90	364 A	C C	LYS A	49	12.523	2.329	-7.077	1.00
	ATOM 19.91	365 A	O O	LYS A	49	12.339	2.667	-5.890	1.00
15	ATOM 18.63	366 A	N N	ILE A	50	11.523	1.999	-7.900	1.00
	ATOM 17.48	367 A	CA C	ILE A	50	10.121	2.078	-7.533	1.00
20	ATOM 17.67	368 A	CB C	ILE A	50	9.284	2.650	-8.695	1.00
	ATOM 17.24	369 A	CG1 C	ILE A	50	9.738	4.076	-9.050	1.00
	ATOM 17.34	370 A	CD1 C	ILE A	50	9.083	4.630	-10.302	1.00
25	ATOM 17.29	371 A	CG2 C	ILE A	50	7.807	2.723	-8.319	1.00
	ATOM 17.96	372 A	C C	ILE A	50	9.562	0.730	-7.090	1.00
30	ATOM 18.69	373 A	O O	ILE A	50	9.339	-0.161	-7.909	1.00
	ATOM 17.09	374 A	N N	THR A	51	9.355	0.583	-5.784	1.00

	ATOM 17.60	375 A	CA C	THR A	51	8.731	-0.601	-5.218	1.00
	ATOM 18.38	376 A	CB C	THR A	51	8.700	-0.423	-3.690	1.00
5	ATOM 17.39	377 A	OG1 O	THR A	51	10.033	-0.380	-3.205	1.00
	ATOM 17.34	378 A	CG2 C	THR A	51	8.054	-1.617	-3.014	1.00
10	ATOM 17.50	379 A	C C	THR A	51	7.301	-0.746	-5.646	1.00
	ATOM 18.10	380 A	O O	THR A	51	6.827	-1.834	-5.903	1.00
	ATOM 16.93	381 A	N N	ALA A	52	6.578	0.369	-5.670	1.00
15	ATOM 17.34	382 A	CA C	ALA A	52	5.179	0.338	-6.052	1.00
	ATOM 17.41	383 A	CB C	ALA A	52	4.314	-0.132	-4.884	1.00
20	ATOM 17.46	384 A	C C	ALA A	52	4.753	1.725	-6.501	1.00
	ATOM 16.50	385 A	O O	ALA A	52	5.187	2.730	-5.928	1.00
	ATOM 17.19	386 A	N N	LEU A	53	3.921	1.760	-7.539	1.00
25	ATOM 16.89	387 A	CA C	LEU A	53	3.369	2.987	-8.081	1.00
	ATOM 16.66	388 A	CB C	LEU A	53	4.004	3.309	-9.430	1.00
30	ATOM 16.83	389 A	CG C	LEU A	53	3.490	4.525	-10.224	1.00
	ATOM 15.83	390 A	CD1 C	LEU A	53	3.523	5.796	-9.401	1.00

	ATOM	391	CD2	LEU	A	53	4.303	4.720	-11.476	1.00
	17.71	A	C							
	ATOM	392	C	LEU	A	53	1.868	2.779	-8.212	1.00
	17.28	A	C							
5	ATOM	393	O	LEU	A	53	1.421	2.057	-9.097	1.00
	17.43	A	O							
	ATOM	394	N	TYR	A	54	1.101	3.393	-7.303	1.00
	17.28	A	N							
10	ATOM	395	CA	TYR	A	54	-0.350	3.200	-7.230	1.00
	16.87	A	C							
	ATOM	396	CB	TYR	A	54	-0.774	2.944	-5.789	1.00
	16.88	A	C							
	ATOM	397	CG	TYR	A	54	-0.268	1.679	-5.144	1.00
	15.63	A	C							
15	ATOM	398	CD1	TYR	A	54	-0.411	0.448	-5.770	1.00
	15.86	A	C							
	ATOM	399	CE1	TYR	A	54	0.037	-0.698	-5.192	1.00
	15.12	A	C							
20	ATOM	400	CZ	TYR	A	54	0.666	-0.647	-3.946	1.00
	15.32	A	C							
	ATOM	401	OH	TYR	A	54	1.093	-1.815	-3.374	1.00
	14.97	A	O							
	ATOM	402	CE2	TYR	A	54	0.856	0.558	-3.312	1.00
	15.70	A	C							
25	ATOM	403	CD2	TYR	A	54	0.384	1.718	-3.908	1.00
	15.59	A	C							
	ATOM	404	C	TYR	A	54	-1.098	4.411	-7.712	1.00
	17.11	A	C							
30	ATOM	405	O	TYR	A	54	-0.733	5.546	-7.387	1.00
	16.78	A	O							
	ATOM	406	N	ALA	A	55	-2.161	4.184	-8.483	1.00
	17.01	A	N							

	ATOM 17.49	407 A	CA C	ALA A	55	-3.032	5.260	-8.926	1.00
	ATOM 17.43	408 A	CB C	ALA A	55	-3.355	5.094	-10.437	1.00
5	ATOM 18.26	409 A	C C	ALA A	55	-4.323	5.272	-8.100	1.00
	ATOM 19.60	410 A	O O	ALA A	55	-5.174	4.400	-8.269	1.00
10	ATOM 17.69	411 A	N N	LEU A	56	-4.481	6.267	-7.230	1.00
	ATOM 17.32	412 A	CA C	LEU A	56	-5.641	6.353	-6.368	1.00
	ATOM 16.99	413 A	CB C	LEU A	56	-5.224	6.779	-4.965	1.00
15	ATOM 17.97	414 A	CG C	LEU A	56	-4.452	5.752	-4.129	1.00
	ATOM 20.33	415 A	CD1 C	LEU A	56	-3.120	5.532	-4.719	1.00
20	ATOM 19.18	416 A	CD2 C	LEU A	56	-4.329	6.225	-2.662	1.00
	ATOM 17.28	417 A	C C	LEU A	56	-6.662	7.360	-6.867	1.00
	ATOM 17.95	418 A	O O	LEU A	56	-7.839	7.192	-6.653	1.00
25	ATOM 17.26	419 A	N N	GLY A	57	-6.204	8.430	-7.485	1.00
	ATOM 17.53	420 A	CA C	GLY A	57	-7.068	9.541	-7.802	1.00
30	ATOM 17.74	421 A	C C	GLY A	57	-7.662	9.430	-9.199	1.00
	ATOM 17.69	422 A	O O	GLY A	57	-8.758	9.905	-9.446	1.00

	ATOM	423	N	ARG	A	58	-6.921	8.825	-10.109	1.00
	18.54	A	N							
	ATOM	424	CA	ARG	A	58	-7.361	8.659	-11.502	1.00
	19.44	A	C							
5	ATOM	425	CB	ARG	A	58	-6.572	9.555	-12.466	1.00
	18.56	A	C							
	ATOM	426	CG	ARG	A	58	-6.873	11.036	-12.371	1.00
	18.16	A	C							
10	ATOM	427	CD	ARG	A	58	-5.685	11.912	-12.787	1.00
	17.99	A	C							
	ATOM	428	NE	ARG	A	58	-4.505	11.593	-11.990	1.00
	17.16	A	N							
	ATOM	429	CZ	ARG	A	58	-3.248	11.716	-12.392	1.00
	18.78	A	C							
15	ATOM	430	NH1	ARG	A	58	-2.967	12.194	-13.591	1.00
	18.96	A	N							
	ATOM	431	NH2	ARG	A	58	-2.253	11.339	-11.584	1.00
	17.60	A	N							
20	ATOM	432	C	ARG	A	58	-7.123	7.240	-11.909	1.00
	19.97	A	C							
	ATOM	433	O	ARG	A	58	-6.007	6.754	-11.878	1.00
	20.06	A	O							
	ATOM	434	N	THR	A	59	-8.183	6.575	-12.324	1.00
	22.06	A	N							
25	ATOM	435	CA	THR	A	59	-8.091	5.180	-12.688	1.00
	22.88	A	C							
	ATOM	436	CB	THR	A	59	-9.479	4.693	-13.142	1.00
	24.04	A	C							
30	ATOM	437	OG1	THR	A	59	-10.330	4.643	-11.984	1.00
	25.24	A	O							
	ATOM	438	CG2	THR	A	59	-9.406	3.250	-13.657	1.00
	25.24	A	C							

	ATOM 22.06	439 A	C C	THR A	59	-7.009	4.919	-13.733	1.00
	ATOM 22.93	440 A	O O	THR A	59	-7.020	5.482	-14.835	1.00
5	ATOM 21.27	441 A	N N	ASN A	60	-6.074	4.068	-13.332	1.00
	ATOM 21.57	442 A	CA C	ASN A	60	-4.939	3.618	-14.124	1.00
10	ATOM 22.51	443 A	CB C	ASN A	60	-5.400	2.788	-15.326	1.00
	ATOM 24.76	444 A	CG C	ASN A	60	-5.861	1.401	-14.927	1.00
	ATOM 27.82	445 A	OD1 O	ASN A	60	-5.546	0.908	-13.835	1.00
15	ATOM 25.97	446 A	ND2 N	ASN A	60	-6.624	0.773	-15.801	1.00
	ATOM 20.35	447 A	C C	ASN A	60	-4.038	4.744	-14.614	1.00
20	ATOM 20.71	448 A	O O	ASN A	60	-3.369	4.589	-15.629	1.00
	ATOM 18.43	449 A	N N	ASN A	61	-4.023	5.852	-13.897	1.00
	ATOM 18.53	450 A	CA C	ASN A	61	-3.217	6.996	-14.300	1.00
25	ATOM 17.54	451 A	CB C	ASN A	61	-4.095	8.062	-14.972	1.00
	ATOM 19.62	452 A	CG C	ASN A	61	-3.278	9.194	-15.580	1.00
30	ATOM 22.44	453 A	OD1 O	ASN A	61	-3.832	10.171	-16.141	1.00
	ATOM 15.52	454 A	ND2 N	ASN A	61	-1.968	9.081	-15.481	1.00

	ATOM 16.75	455 A	C C	ASN A	61	-2.520	7.586	-13.088	1.00
	ATOM 16.00	456 A	O O	ASN A	61	-3.159	8.213	-12.260	1.00
5	ATOM 16.29	457 A	N N	ALA A	62	-1.219	7.357	-12.988	1.00
	ATOM 16.34	458 A	CA C	ALA A	62	-0.418	7.910	-11.902	1.00
10	ATOM 16.55	459 A	CB C	ALA A	62	0.310	6.804	-11.183	1.00
	ATOM 16.52	460 A	C C	ALA A	62	0.584	8.948	-12.405	1.00
	ATOM 15.61	461 A	O O	ALA A	62	1.583	9.221	-11.728	1.00
15	ATOM 15.91	462 A	N N	ASN A	63	0.344	9.515	-13.593	1.00
	ATOM 15.75	463 A	CA C	ASN A	63	1.276	10.465	-14.157	1.00
20	ATOM 15.36	464 A	CB C	ASN A	63	1.251	10.471	-15.720	1.00
	ATOM 16.00	465 A	CG C	ASN A	63	0.043	11.165	-16.307	1.00
	ATOM 14.50	466 A	OD1 O	ASN A	63	-0.617	11.982	-15.643	1.00
25	ATOM 15.36	467 A	ND2 N	ASN A	63	-0.274	10.833	-17.584	1.00
	ATOM 15.21	468 A	C C	ASN A	63	1.115	11.858	-13.518	1.00
30	ATOM 15.63	469 A	O O	ASN A	63	0.168	12.108	-12.762	1.00
	ATOM 15.12	470 A	N N	ASP A	64	2.047	12.753	-13.828	1.00

	ATOM	471	CA	ASP	A	64	2.192	14.015	-13.102	1.00
	15.29	A	C							
	ATOM	472	CB	ASP	A	64	3.450	13.990	-12.233	1.00
	14.59	A	C							
5	ATOM	473	CG	ASP	A	64	3.532	15.161	-11.300	1.00
	15.31	A	C							
	ATOM	474	OD1	ASP	A	64	2.476	15.813	-11.058	1.00
	14.15	A	O							
10	ATOM	475	OD2	ASP	A	64	4.626	15.516	-10.776	1.00
	14.37	A	O							
	ATOM	476	C	ASP	A	64	2.236	15.206	-14.061	1.00
	15.53	A	C							
	ATOM	477	O	ASP	A	64	3.315	15.713	-14.423	1.00
	16.54	A	O							
15	ATOM	478	N	PRO	A	65	1.065	15.644	-14.476	1.00
	16.18	A	N							
	ATOM	479	CA	PRO	A	65	0.950	16.813	-15.343	1.00
	17.33	A	C							
20	ATOM	480	CB	PRO	A	65	-0.509	16.776	-15.807	1.00
	17.19	A	C							
	ATOM	481	CG	PRO	A	65	-1.225	15.953	-14.808	1.00
	17.73	A	C							
	ATOM	482	CD	PRO	A	65	-0.249	15.043	-14.172	1.00
	17.21	A	C							
25	ATOM	483	C	PRO	A	65	1.228	18.102	-14.607	1.00
	17.72	A	C							
	ATOM	484	O	PRO	A	65	1.515	19.081	-15.250	1.00
	17.98	A	O							
30	ATOM	485	N	ASN	A	66	1.150	18.065	-13.279	1.00
	18.27	A	N							
	ATOM	486	CA	ASN	A	66	1.314	19.217	-12.426	1.00
	19.24	A	C							

	ATOM	487	CB	ASN	A	66	0.536	18.958	-11.111	1.00
	20.48	A	C							
	ATOM	488	CG	ASN	A	66	0.790	19.993	-10.068	1.00
	22.89	A	C							
5	ATOM	489	OD1	ASN	A	66	1.942	20.281	-9.721	1.00
	23.54	A	O							
	ATOM	490	ND2	ASN	A	66	-0.287	20.591	-9.566	1.00
	25.20	A	N							
10	ATOM	491	C	ASN	A	66	2.806	19.457	-12.153	1.00
	18.71	A	C							
	ATOM	492	O	ASN	A	66	3.314	20.549	-12.353	1.00
	18.84	A	O							
	ATOM	493	N	GLY	A	67	3.500	18.426	-11.698	1.00
	17.55	A	N							
15	ATOM	494	CA	GLY	A	67	4.917	18.503	-11.406	1.00
	16.38	A	C							
	ATOM	495	C	GLY	A	67	5.234	18.455	-9.916	1.00
	15.32	A	C							
20	ATOM	496	O	GLY	A	67	6.383	18.167	-9.542	1.00
	15.11	A	O							
	ATOM	497	N	HIS	A	68	4.230	18.722	-9.075	1.00
	13.44	A	N							
	ATOM	498	CA	HIS	A	68	4.406	18.776	-7.608	1.00
	12.51	A	C							
25	ATOM	499	CB	BHIS	A	68	3.109	19.121	-6.891	0.50
	12.22	A	C							
	ATOM	500	CB	AHIS	A	68	3.048	19.078	-6.930	0.50
	12.48	A	C							
30	ATOM	501	CG	BHIS	A	68	3.266	19.371	-5.417	0.50
	10.61	A	C							
	ATOM	502	CG	AHIS	A	68	3.140	19.398	-5.464	0.50
	10.86	A	C							

	ATOM	503	ND1BHIS	A	68	2.741	18.522	-4.453	0.50	
	5.34	A	N							
	ATOM	504	ND1AHIS	A	68	3.742	18.559	-4.548	0.50	
	7.56	A	N							
5	ATOM	505	CE1BHIS	A	68	3.009	19.016	-3.254	0.50	
	6.59	A	C							
	ATOM	506	CE1AHIS	A	68	3.674	19.102	-3.341	0.50	
	2.00	A	C							
10	ATOM	507	NE2BHIS	A	68	3.678	20.158	-3.403	0.50	
	7.98	A	N							
	ATOM	508	NE2AHIS	A	68	3.061	20.277	-3.442	0.50	
	6.21	A	N							
	ATOM	509	CD2BHIS	A	68	3.845	20.405	-4.745	0.50	
	5.10	A	C							
15	ATOM	510	CD2AHIS	A	68	2.697	20.471	-4.756	0.50	
	8.79	A	C							
	ATOM	511	C	HIS	A	68	4.986	17.474	-7.064	1.00
	12.70	A	C							
20	ATOM	512	O	HIS	A	68	6.025	17.471	-6.401	1.00
	12.91	A	O							
	ATOM	513	N	GLY	A	69	4.315	16.374	-7.317	1.00
	13.22	A	N							
	ATOM	514	CA	GLY	A	69	4.709	15.094	-6.739	1.00
	13.52	A	C							
25	ATOM	515	C	GLY	A	69	6.039	14.574	-7.181	1.00
	13.01	A	C							
	ATOM	516	O	GLY	A	69	6.751	13.894	-6.418	1.00
	13.80	A	O							
30	ATOM	517	N	THR	A	70	6.391	14.865	-8.432	1.00
	13.25	A	N							
	ATOM	518	CA	THR	A	70	7.651	14.425	-8.970	1.00
	12.89	A	C							

	ATOM	519	CB	THR	A	70	7.688	14.638	-10.507	1.00
	13.93	A	C							
	ATOM	520	OG1	THR	A	70	6.592	13.940	-11.116	1.00
	14.34	A	O							
5	ATOM	521	CG2	THR	A	70	8.895	13.977	-11.110	1.00
	13.50	A	C							
	ATOM	522	C	THR	A	70	8.769	15.192	-8.309	1.00
	12.86	A	C							
10	ATOM	523	O	THR	A	70	9.816	14.622	-8.013	1.00
	13.63	A	O							
	ATOM	524	N	HIS	A	71	8.560	16.498	-8.093	1.00
	12.19	A	N							
	ATOM	525	CA	HIS	A	71	9.580	17.341	-7.486	1.00
	11.80	A	C							
15	ATOM	526	CB	HIS	A	71	9.125	18.796	-7.555	1.00
	11.41	A	C							
	ATOM	527	CG	BHIS	A	71	10.185	19.784	-7.212	0.50
	11.89	A	C							
20	ATOM	528	CG	AHIS	A	71	10.189	19.775	-7.181	0.50
	9.73	A	C							
	ATOM	529	ND1B	HIS	A	71	10.926	19.709	-6.050	0.50
	12.60	A	N							
	ATOM	530	ND1A	HIS	A	71	10.236	20.388	-5.942	0.50
	5.89	A	N							
25	ATOM	531	CE1B	HIS	A	71	11.791	20.706	-6.025	0.50
	13.16	A	C							
	ATOM	532	CE1A	HIS	A	71	11.281	21.192	-5.898	0.50
	7.95	A	C							
30	ATOM	533	NE2B	HIS	A	71	11.618	21.438	-7.114	0.50
	14.18	A	N							
	ATOM	534	NE2A	HIS	A	71	11.923	21.107	-7.054	0.50
	10.14	A	N							

	ATOM 10.25	535 A	CD2BHIS C	A	71	10.617	20.883	-7.869	0.50
	ATOM 6.22	536 A	CD2AHIS C	A	71	11.258	20.231	-7.874	0.50
5	ATOM 12.35	537 A	C C	HIS A	71	9.806	16.875	-6.018	1.00
	ATOM 12.45	538 A	O O	HIS A	71	10.935	16.698	-5.538	1.00
10	ATOM 12.33	539 A	N N	VAL A	72	8.697	16.657	-5.331	1.00
	ATOM 12.62	540 A	CA C	VAL A	72	8.704	16.204	-3.960	1.00
	ATOM 12.75	541 A	CB C	VAL A	72	7.279	16.056	-3.469	1.00
15	ATOM 12.50	542 A	CG1 C	VAL A	72	7.248	15.256	-2.202	1.00
	ATOM 12.97	543 A	CG2 C	VAL A	72	6.647	17.430	-3.262	1.00
20	ATOM 13.01	544 A	C C	VAL A	72	9.431	14.864	-3.799	1.00
	ATOM 12.02	545 A	O O	VAL A	72	10.333	14.707	-2.947	1.00
	ATOM 12.23	546 A	N N	ALA A	73	9.054	13.888	-4.615	1.00
25	ATOM 12.29	547 A	CA C	ALA A	73	9.664	12.572	-4.521	1.00
	ATOM 12.32	548 A	CB C	ALA A	73	8.986	11.617	-5.440	1.00
30	ATOM 11.78	549 A	C C	ALA A	73	11.180	12.682	-4.850	1.00
	ATOM 11.60	550 A	O O	ALA A	73	11.985	11.992	-4.280	1.00

	ATOM 12.04	551 A	N N	GLY A	74	11.553	13.583	-5.742	1.00
	ATOM 11.92	552 A	CA C	GLY A	74	12.961	13.760	-6.069	1.00
5	ATOM 12.13	553 A	C C	GLY A	74	13.768	14.190	-4.845	1.00
	ATOM 11.64	554 A	O O	GLY A	74	14.936	13.816	-4.693	1.00
10	ATOM 12.08	555 A	N N	SER A	75	13.157	15.015	-3.994	1.00
	ATOM 12.08	556 A	CA C	SER A	75	13.844	15.546	-2.827	1.00
	ATOM 11.53	557 A	CB C	SER A	75	13.095	16.748	-2.267	1.00
15	ATOM 13.29	558 A	OG O	SER A	75	13.254	17.915	-3.077	1.00
	ATOM 12.05	559 A	C C	SER A	75	14.033	14.477	-1.739	1.00
20	ATOM 12.73	560 A	O O	SER A	75	14.984	14.540	-0.927	1.00
	ATOM 11.61	561 A	N N	VAL A	76	13.112	13.524	-1.676	1.00
	ATOM 11.87	562 A	CA C	VAL A	76	13.272	12.407	-0.748	1.00
25	ATOM 12.06	563 A	CB C	VAL A	76	12.023	11.519	-0.691	1.00
	ATOM 12.75	564 A	CG1 C	VAL A	76	12.224	10.396	0.324	1.00
30	ATOM 11.56	565 A	CG2 C	VAL A	76	10.799	12.319	-0.316	1.00
	ATOM 12.11	566 A	C C	VAL A	76	14.415	11.501	-1.173	1.00

	ATOM	567	O	VAL	A	76	15.280	11.158	-0.372	1.00
	10.37	A	O							
	ATOM	568	N	LEU	A	77	14.410	11.085	-2.437	1.00
	12.79	A	N							
5	ATOM	569	CA	LEU	A	77	15.234	9.934	-2.809	1.00
	12.61	A	C							
	ATOM	570	CB	LEU	A	77	14.532	8.627	-2.425	1.00
	13.05	A	C							
10	ATOM	571	CG	LEU	A	77	13.050	8.419	-2.774	1.00
	11.85	A	C							
	ATOM	572	CD1	LEU	A	77	12.868	8.361	-4.281	1.00
	12.80	A	C							
	ATOM	573	CD2	LEU	A	77	12.512	7.140	-2.114	1.00
	14.07	A	C							
15	ATOM	574	C	LEU	A	77	15.676	9.847	-4.267	1.00
	13.21	A	C							
	ATOM	575	O	LEU	A	77	16.181	8.810	-4.656	1.00
	13.59	A	O							
20	ATOM	576	N	GLY	A	78	15.586	10.935	-5.022	1.00
	13.72	A	N							
	ATOM	577	CA	GLY	A	78	16.045	10.945	-6.415	1.00
	14.19	A	C							
	ATOM	578	C	GLY	A	78	17.486	10.505	-6.506	1.00
	14.88	A	C							
25	ATOM	579	O	GLY	A	78	18.322	10.998	-5.718	1.00
	14.70	A	O							
	ATOM	580	N	ASN	A	79	17.800	9.587	-7.420	1.00
	15.24	A	N							
30	ATOM	581	CA	ASN	A	79	19.172	9.066	-7.520	1.00
	16.71	A	C							
	ATOM	582	CB	ASN	A	79	19.204	7.542	-7.263	1.00
	16.08	A	C							

	ATOM 16.70	583 A	CG C	ASN A	79	20.615	7.023	-6.904	1.00
	ATOM 15.21	584 A	OD1 O	ASN A	79	21.438	7.754	-6.372	1.00
5	ATOM 15.92	585 A	ND2 N	ASN A	79	20.881	5.749	-7.181	1.00
	ATOM 18.12	586 A	C C	ASN A	79	19.877	9.353	-8.852	1.00
10	ATOM 18.96	587 A	O O	ASN A	79	20.735	8.576	-9.267	1.00
	ATOM 18.68	588 A	N N	ALA A	80	19.559	10.458	-9.513	1.00
	ATOM 19.08	589 A	CA C	ALA A	80	20.316	10.838	-10.723	1.00
15	ATOM 19.15	590 A	CB C	ALA A	80	19.381	11.169	-11.876	1.00
	ATOM 18.85	591 A	C C	ALA A	80	21.261	11.995	-10.376	1.00
20	ATOM 18.76	592 A	O O	ALA A	80	22.245	11.795	-9.663	1.00
	ATOM 18.39	593 A	N N	THR A	81	20.973	13.194	-10.841	1.00
	ATOM 18.18	594 A	CA C	THR A	81	21.647	14.370	-10.305	1.00
25	ATOM 18.72	595 A	CB C	THR A	81	22.229	15.222	-11.444	1.00
	ATOM 17.48	596 A	OG1 O	THR A	81	21.202	15.535	-12.379	1.00
30	ATOM 21.52	597 A	CG2 C	THR A	81	23.229	14.420	-12.289	1.00
	ATOM 17.64	598 A	C C	THR A	81	20.650	15.185	-9.470	1.00

	ATOM 17.77	599 A	O O	THR A	81	19.466	14.858	-9.423	1.00
	ATOM 16.86	600 A	N N	ASN A	82	21.115	16.238	-8.803	1.00
5	ATOM 16.82	601 A	CA C	ASN A	82	20.271	16.947	-7.842	1.00
	ATOM 16.90	602 A	CB C	ASN A	82	19.279	17.840	-8.574	1.00
10	ATOM 18.05	603 A	CG C	ASN A	82	19.962	18.782	-9.552	1.00
	ATOM 20.14	604 A	OD1 O	ASN A	82	19.861	18.632	-10.804	1.00
	ATOM 12.31	605 A	ND2 N	ASN A	82	20.650	19.760	-9.005	1.00
15	ATOM 16.16	606 A	C C	ASN A	82	19.541	15.941	-6.930	1.00
	ATOM 16.88	607 A	O O	ASN A	82	18.325	15.985	-6.772	1.00
20	ATOM 15.41	608 A	N N	LYS A	83	20.310	15.022	-6.366	1.00
	ATOM 15.60	609 A	CA C	LYS A	83	19.767	13.853	-5.710	1.00
	ATOM 15.95	610 A	CB C	LYS A	83	20.907	12.919	-5.287	1.00
25	ATOM 16.19	611 A	CG C	LYS A	83	21.665	12.168	-6.415	1.00
	ATOM 19.24	612 A	CD C	LYS A	83	22.815	11.339	-5.811	1.00
30	ATOM 21.12	613 A	CE C	LYS A	83	23.806	10.791	-6.833	1.00
	ATOM 20.88	614 A	NZ N	LYS A	83	23.076	9.941	-7.791	1.00

	ATOM	615	C	LYS	A	83	18.966	14.243	-4.453	1.00
	14.74	A	C							
	ATOM	616	O	LYS	A	83	19.243	15.248	-3.801	1.00
	13.71	A	O							
5	ATOM	617	N	GLY	A	84	18.000	13.402	-4.117	1.00
	14.66	A	N							
	ATOM	618	CA	GLY	A	84	17.337	13.439	-2.833	1.00
	14.40	A	C							
10	ATOM	619	C	GLY	A	84	18.240	13.078	-1.664	1.00
	14.38	A	C							
	ATOM	620	O	GLY	A	84	19.372	12.683	-1.853	1.00
	14.68	A	O							
	ATOM	621	N	MET	A	85	17.734	13.231	-0.439	1.00
	13.41	A	N							
15	ATOM	622	CA	MET	A	85	18.586	13.079	0.753	1.00
	13.39	A	C							
	ATOM	623	CB	MET	A	85	17.865	13.660	1.970	1.00
	13.62	A	C							
20	ATOM	624	CG	MET	A	85	17.446	15.132	1.799	1.00
	14.10	A	C							
	ATOM	625	SD	MET	A	85	18.823	16.235	1.480	1.00
	15.77	A	S							
	ATOM	626	CE	MET	A	85	18.801	16.373	-0.341	1.00
	16.54	A	C							
25	ATOM	627	C	MET	A	85	18.946	11.600	1.022	1.00
	13.55	A	C							
	ATOM	628	O	MET	A	85	19.975	11.302	1.623	1.00
	13.91	A	O							
30	ATOM	629	N	ALA	A	86	18.078	10.685	0.586	1.00
	13.51	A	N							
	ATOM	630	CA	ALA	A	86	18.290	9.250	0.774	1.00
	13.69	A	C							

	ATOM	631	CB	ALA	A	86	17.223	8.682	1.717	1.00
	13.63	A	C							
	ATOM	632	C	ALA	A	86	18.200	8.571	-0.589	1.00
	13.59	A	C							
5	ATOM	633	O	ALA	A	86	17.258	7.821	-0.868	1.00
	14.50	A	O							
	ATOM	634	N	PRO	A	87	19.175	8.818	-1.445	1.00
	14.33	A	N							
10	ATOM	635	CA	PRO	A	87	19.068	8.409	-2.859	1.00
	14.18	A	C							
	ATOM	636	CB	PRO	A	87	20.236	9.152	-3.515	1.00
	14.93	A	C							
	ATOM	637	CG	PRO	A	87	21.263	9.267	-2.393	1.00
	14.56	A	C							
15	ATOM	638	CD	PRO	A	87	20.446	9.524	-1.148	1.00
	13.97	A	C							
	ATOM	639	C	PRO	A	87	19.146	6.901	-3.123	1.00
	14.68	A	C							
20	ATOM	640	O	PRO	A	87	18.943	6.474	-4.260	1.00
	15.65	A	O							
	ATOM	641	N	GLN	A	88	19.424	6.099	-2.109	1.00
	15.11	A	N							
	ATOM	642	CA	GLN	A	88	19.436	4.639	-2.266	1.00
	16.35	A	C							
25	ATOM	643	CB	GLN	A	88	20.748	4.050	-1.733	1.00
	16.73	A	C							
	ATOM	644	CG	GLN	A	88	21.900	4.262	-2.703	1.00
	19.50	A	C							
30	ATOM	645	CD	GLN	A	88	23.267	3.916	-2.161	1.00
	21.39	A	C							
	ATOM	646	OE1	GLN	A	88	23.427	2.933	-1.439	1.00
	22.79	A	O							

	ATOM	647	NE2	GLN	A	88	24.272	4.709	-2.547	1.00
	22.41	A	N							
	ATOM	648	C	GLN	A	88	18.228	3.976	-1.621	1.00
	16.49	A	C							
5	ATOM	649	O	GLN	A	88	18.080	2.754	-1.644	1.00
	16.50	A	O							
	ATOM	650	N	ALA	A	89	17.347	4.786	-1.044	1.00
	16.72	A	N							
10	ATOM	651	CA	ALA	A	89	16.056	4.279	-0.599	1.00
	16.78	A	C							
	ATOM	652	CB	ALA	A	89	15.380	5.277	0.375	1.00
	17.28	A	C							
	ATOM	653	C	ALA	A	89	15.139	3.996	-1.792	1.00
	16.32	A	C							
15	ATOM	654	O	ALA	A	89	15.212	4.648	-2.826	1.00
	16.81	A	O							
	ATOM	655	N	ASN	A	90	14.248	3.037	-1.634	1.00
	15.45	A	N							
20	ATOM	656	CA	ASN	A	90	13.264	2.756	-2.658	1.00
	15.40	A	C							
	ATOM	657	CB	ASN	A	90	13.036	1.247	-2.756	1.00
	16.05	A	C							
	ATOM	658	CG	ASN	A	90	14.076	0.549	-3.658	1.00
	19.92	A	C							
25	ATOM	659	OD1	ASN	A	90	15.039	1.155	-4.106	1.00
	25.00	A	O							
	ATOM	660	ND2	ASN	A	90	13.892	-0.736	-3.873	1.00
	28.28	A	N							
30	ATOM	661	C	ASN	A	90	11.942	3.486	-2.367	1.00
	14.01	A	C							
	ATOM	662	O	ASN	A	90	11.668	3.834	-1.234	1.00
	12.81	A	O							

	ATOM 13.02	663 A	N N	LEU A	91	11.150	3.705	-3.410	1.00
	ATOM 13.78	664 A	CA C	LEU A	91	9.964	4.542	-3.381	1.00
5	ATOM 13.95	665 A	CB C	LEU A	91	10.022	5.524	-4.540	1.00
	ATOM 12.85	666 A	CG C	LEU A	91	8.861	6.472	-4.765	1.00
10	ATOM 15.80	667 A	CD1 C	LEU A	91	8.669	7.375	-3.571	1.00
	ATOM 13.13	668 A	CD2 C	LEU A	91	9.077	7.287	-6.026	1.00
	ATOM 14.15	669 A	C C	LEU A	91	8.661	3.762	-3.524	1.00
15	ATOM 15.63	670 A	O O	LEU A	91	8.503	2.953	-4.437	1.00
	ATOM 13.69	671 A	N N	VAL A	92	7.716	4.055	-2.649	1.00
20	ATOM 14.00	672 A	CA C	VAL A	92	6.327	3.692	-2.872	1.00
	ATOM 13.15	673 A	CB C	VAL A	92	5.737	3.031	-1.662	1.00
	ATOM 15.32	674 A	CG1 C	VAL A	92	4.197	3.018	-1.767	1.00
25	ATOM 13.02	675 A	CG2 C	VAL A	92	6.260	1.621	-1.546	1.00
	ATOM 13.45	676 A	C C	VAL A	92	5.615	5.001	-3.175	1.00
30	ATOM 13.53	677 A	O O	VAL A	92	5.687	5.942	-2.376	1.00
	ATOM 13.19	678 A	N N	PHE A	93	4.984	5.107	-4.346	1.00

	ATOM 13.05	679 A	CA C	PHE A	93	4.293	6.351	-4.714	1.00
	ATOM 13.57	680 A	CB C	PHE A	93	4.899	6.964	-5.985	1.00
5	ATOM 13.50	681 A	CG C	PHE A	93	4.484	8.388	-6.206	1.00
	ATOM 13.00	682 A	CD1 C	PHE A	93	5.331	9.439	-5.861	1.00
10	ATOM 12.71	683 A	CE1 C	PHE A	93	4.941	10.748	-6.023	1.00
	ATOM 11.77	684 A	CZ C	PHE A	93	3.680	11.030	-6.515	1.00
	ATOM 12.22	685 A	CE2 C	PHE A	93	2.832	9.998	-6.881	1.00
15	ATOM 12.44	686 A	CD2 C	PHE A	93	3.226	8.679	-6.710	1.00
	ATOM 13.51	687 A	C C	PHE A	93	2.793	6.150	-4.872	1.00
20	ATOM 13.61	688 A	O O	PHE A	93	2.350	5.285	-5.632	1.00
	ATOM 13.35	689 A	N N	GLN A	94	2.021	6.949	-4.150	1.00
	ATOM 13.55	690 A	CA C	GLN A	94	0.567	6.903	-4.197	1.00
25	ATOM 12.95	691 A	CB C	GLN A	94	-0.034	6.775	-2.786	1.00
	ATOM 13.25	692 A	CG C	GLN A	94	0.383	5.493	-2.078	1.00
30	ATOM 14.07	693 A	CD C	GLN A	94	0.065	5.494	-0.589	1.00
	ATOM 16.83	694 A	OE1 O	GLN A	94	0.598	6.311	0.157	1.00

	ATOM 13.83	695 A	NE2 N	GLN A	94	-0.813	4.578	-0.158	1.00
	ATOM 13.81	696 A	C C	GLN A	94	0.118	8.195	-4.841	1.00
5	ATOM 12.11	697 A	O O	GLN A	94	0.197	9.289	-4.236	1.00
	ATOM 14.33	698 A	N N	SER A	95	-0.266	8.072	-6.110	1.00
10	ATOM 14.08	699 A	CA C	SER A	95	-0.793	9.190	-6.893	1.00
	ATOM 13.95	700 A	CB C	SER A	95	-0.743	8.850	-8.380	1.00
	ATOM 11.92	701 A	OG O	SER A	95	-1.337	9.864	-9.152	1.00
15	ATOM 14.82	702 A	C C	SER A	95	-2.221	9.519	-6.494	1.00
	ATOM 14.73	703 A	O O	SER A	95	-3.150	8.743	-6.780	1.00
20	ATOM 15.21	704 A	N N	ILE A	96	-2.404	10.681	-5.852	1.00
	ATOM 15.55	705 A	CA C	ILE A	96	-3.699	11.049	-5.277	1.00
	ATOM 15.92	706 A	CB C	ILE A	96	-3.560	11.482	-3.782	1.00
25	ATOM 16.08	707 A	CG1 C	ILE A	96	-2.466	12.548	-3.597	1.00
	ATOM 17.02	708 A	CD1 C	ILE A	96	-2.367	13.122	-2.196	1.00
30	ATOM 16.70	709 A	CG2 C	ILE A	96	-3.257	10.273	-2.915	1.00
	ATOM 15.93	710 A	C C	ILE A	96	-4.398	12.158	-6.043	1.00

	ATOM 14.84	711 A	O O	ILE A	96	-5.475	12.590	-5.660	1.00
	ATOM 16.32	712 A	N N	MET A	97	-3.797	12.640	-7.119	1.00
5	ATOM 18.17	713 A	CA C	MET A	97	-4.440	13.700	-7.889	1.00
	ATOM 18.20	714 A	CB C	MET A	97	-3.471	14.346	-8.884	1.00
10	ATOM 21.58	715 A	CG C	MET A	97	-4.107	15.480	-9.688	1.00
	ATOM 25.41	716 A	SD S	MET A	97	-2.949	16.297	-10.814	1.00
	ATOM 31.75	717 A	CE C	MET A	97	-3.900	16.196	-12.225	1.00
15	ATOM 18.32	718 A	C C	MET A	97	-5.647	13.114	-8.641	1.00
	ATOM 18.26	719 A	O O	MET A	97	-5.537	12.054	-9.249	1.00
20	ATOM 19.35	720 A	N N	ASP A	98	-6.780	13.807	-8.568	1.00
	ATOM 20.45	721 A	CA C	ASP A	98	-8.020	13.369	-9.217	1.00
	ATOM 20.39	722 A	CB C	ASP A	98	-9.268	13.714	-8.375	1.00
25	ATOM 21.41	723 A	CG C	ASP A	98	-9.367	15.170	-8.021	1.00
	ATOM 22.52	724 A	OD1 O	ASP A	98	-9.234	16.024	-8.928	1.00
30	ATOM 20.32	725 A	OD2 O	ASP A	98	-9.599	15.575	-6.847	1.00
	ATOM 20.49	726 A	C C	ASP A	98	-8.093	14.004	-10.592	1.00

	ATOM 19.61	727 A	O O	ASP A	98	-7.168	14.690	-10.996	1.00
	ATOM 21.70	728 A	N N	SER A	99	-9.170	13.747	-11.321	1.00
5	ATOM 23.74	729 A	CA C	SER A	99	-9.252	14.202	-12.703	1.00
	ATOM 24.07	730 A	CB C	SER A	99	-10.202	13.301	-13.510	1.00
10	ATOM 25.19	731 A	OG O	SER A	99	-11.497	13.436	-12.986	1.00
	ATOM 24.80	732 A	C C	SER A	99	-9.727	15.660	-12.749	1.00
	ATOM 27.46	733 A	O O	SER A	99	-9.696	16.286	-13.812	1.00
15	ATOM 24.38	734 A	N N	GLY A	100	-10.152	16.203	-11.611	1.00
	ATOM 25.17	735 A	CA C	GLY A	100	-10.425	17.621	-11.488	1.00
20	ATOM 25.36	736 A	C C	GLY A	100	-9.262	18.470	-10.968	1.00
	ATOM 26.29	737 A	O O	GLY A	100	-9.475	19.606	-10.557	1.00
	ATOM 25.13	738 A	N N	GLY A	101	-8.047	17.933	-10.964	1.00
25	ATOM 24.90	739 A	CA C	GLY A	101	-6.873	18.715	-10.573	1.00
	ATOM 24.55	740 A	C C	GLY A	101	-6.541	18.760	-9.076	1.00
30	ATOM 26.15	741 A	O O	GLY A	101	-5.425	19.133	-8.713	1.00
	ATOM 22.32	742 A	N N	GLY A	102	-7.490	18.406	-8.221	1.00

	ATOM	743	CA	GLY	A	102	-7.258	18.339	-6.783	1.00
	21.84	A	C							
	ATOM	744	C	GLY	A	102	-6.703	17.008	-6.267	1.00
	20.73	A	C							
5	ATOM	745	O	GLY	A	102	-6.172	16.204	-7.021	1.00
	19.11	A	O							
	ATOM	746	N	LEU	A	103	-6.814	16.794	-4.959	1.00
	19.97	A	N							
10	ATOM	747	CA	LEU	A	103	-6.225	15.634	-4.294	1.00
	19.19	A	C							
	ATOM	748	CB	LEU	A	103	-5.346	16.094	-3.131	1.00
	18.87	A	C							
	ATOM	749	CG	LEU	A	103	-4.169	16.986	-3.552	1.00
	18.31	A	C							
15	ATOM	750	CD1	LEU	A	103	-3.298	17.397	-2.354	1.00
	17.54	A	C							
	ATOM	751	CD2	LEU	A	103	-3.341	16.297	-4.607	1.00
	19.64	A	C							
20	ATOM	752	C	LEU	A	103	-7.307	14.676	-3.809	1.00
	19.31	A	C							
	ATOM	753	O	LEU	A	103	-7.179	14.018	-2.750	1.00
	18.44	A	O							
	ATOM	754	N	GLY	A	104	-8.371	14.586	-4.604	1.00
	18.93	A	N							
25	ATOM	755	CA	GLY	A	104	-9.537	13.780	-4.260	1.00
	18.78	A	C							
	ATOM	756	C	GLY	A	104	-9.259	12.298	-4.234	1.00
	18.26	A	C							
30	ATOM	757	O	GLY	A	104	-10.078	11.506	-3.780	1.00
	19.17	A	O							
	ATOM	758	N	GLY	A	105	-8.094	11.886	-4.703	1.00
	17.54	A	N							

	ATOM	759	CA	GLY	A	105	-7.698	10.500	-4.520	1.00
	17.23	A	C							
	ATOM	760	C	GLY	A	105	-7.395	10.091	-3.075	1.00
	16.85	A	C							
5	ATOM	761	O	GLY	A	105	-7.319	8.895	-2.731	1.00
	15.88	A	O							
	ATOM	762	N	LEU	A	106	-7.263	11.067	-2.194	1.00
	16.62	A	N							
10	ATOM	763	CA	LEU	A	106	-7.137	10.729	-0.777	1.00
	16.79	A	C							
	ATOM	764	CB	LEU	A	106	-6.892	11.975	0.048	1.00
	16.05	A	C							
	ATOM	765	CG	LEU	A	106	-5.519	12.560	-0.204	1.00
	14.68	A	C							
15	ATOM	766	CD1	LEU	A	106	-5.479	13.986	0.274	1.00
	16.20	A	C							
	ATOM	767	CD2	LEU	A	106	-4.425	11.707	0.507	1.00
	13.15	A	C							
20	ATOM	768	C	LEU	A	106	-8.423	10.056	-0.304	1.00
	17.90	A	C							
	ATOM	769	O	LEU	A	106	-9.513	10.553	-0.587	1.00
	18.63	A	O							
	ATOM	770	N	PRO	A	107	-8.318	8.932	0.387	1.00
	18.42	A	N							
25	ATOM	771	CA	PRO	A	107	-9.506	8.280	0.977	1.00
	19.35	A	C							
	ATOM	772	CB	PRO	A	107	-8.963	6.932	1.430	1.00
	19.15	A	C							
30	ATOM	773	CG	PRO	A	107	-7.537	7.286	1.774	1.00
	19.19	A	C							
	ATOM	774	CD	PRO	A	107	-7.089	8.162	0.640	1.00
	18.63	A	C							

	ATOM 18.88	775 A	C C	PRO A 107	-10.070	9.036	2.178	1.00
	ATOM 19.33	776 A	O O	PRO A 107	-9.340	9.724	2.886	1.00
5	ATOM 19.46	777 A	N N	ALA A 108	-11.367	8.910	2.408	1.00
	ATOM 19.50	778 A	CA C	ALA A 108	-12.022	9.562	3.530	1.00
10	ATOM 20.76	779 A	CB C	ALA A 108	-13.514	9.168	3.585	1.00
	ATOM 18.72	780 A	C C	ALA A 108	-11.359	9.229	4.875	1.00
	ATOM 19.17	781 A	O O	ALA A 108	-11.229	10.093	5.727	1.00
15	ATOM 18.94	782 A	N N	ASN A 109	-11.007	7.964	5.069	1.00
	ATOM 19.10	783 A	CA C	ASN A 109	-10.193	7.535	6.209	1.00
20	ATOM 19.41	784 A	CB C	ASN A 109	-10.691	6.206	6.773	1.00
	ATOM 22.66	785 A	CG C	ASN A 109	-9.990	5.834	8.073	1.00
	ATOM 19.31	786 A	OD1 O	ASN A 109	-8.872	6.295	8.349	1.00
25	ATOM 25.73	787 A	ND2 N	ASN A 109	-10.665	5.018	8.908	1.00
	ATOM 17.97	788 A	C C	ASN A 109	-8.731	7.392	5.804	1.00
30	ATOM 17.31	789 A	O O	ASN A 109	-8.353	6.446	5.088	1.00
	ATOM 16.66	790 A	N N	LEU A 110	-7.895	8.325	6.245	1.00

	ATOM	791	CA	LEU	A	110	-6.489	8.277	5.862	1.00
	15.50	A	C							
	ATOM	792	CB	LEU	A	110	-5.738	9.502	6.406	1.00
	15.65	A	C							
5	ATOM	793	CG	LEU	A	110	-6.096	10.831	5.749	1.00
	13.74	A	C							
	ATOM	794	CD1	LEU	A	110	-5.294	11.932	6.373	1.00
	16.06	A	C							
10	ATOM	795	CD2	LEU	A	110	-5.873	10.768	4.256	1.00
	13.53	A	C							
	ATOM	796	C	LEU	A	110	-5.784	7.006	6.285	1.00
	15.96	A	C							
	ATOM	797	O	LEU	A	110	-4.750	6.660	5.719	1.00
	16.04	A	O							
15	ATOM	798	N	GLN	A	111	-6.297	6.283	7.276	1.00
	16.18	A	N							
	ATOM	799	CA	GLN	A	111	-5.635	5.034	7.655	1.00
	16.61	A	C							
20	ATOM	800	CB	GLN	A	111	-6.317	4.377	8.871	1.00
	17.82	A	C							
	ATOM	801	CG	GLN	A	111	-6.337	5.320	10.077	1.00
	17.25	A	C							
	ATOM	802	CD	GLN	A	111	-6.584	4.625	11.399	1.00
	20.40	A	C							
25	ATOM	803	OE1	GLN	A	111	-5.934	3.635	11.699	1.00
	21.99	A	O							
	ATOM	804	NE2	GLN	A	111	-7.513	5.163	12.202	1.00
	19.23	A	N							
30	ATOM	805	C	GLN	A	111	-5.560	4.086	6.461	1.00
	17.45	A	C							
	ATOM	806	O	GLN	A	111	-4.601	3.323	6.312	1.00
	17.74	A	O							

	ATOM	807	N	THR	A	112	-6.522	4.195	5.548	1.00
	16.47	A	N							
	ATOM	808	CA	THR	A	112	-6.483	3.418	4.309	1.00
	16.12	A	C							
5	ATOM	809	CB	THR	A	112	-7.756	3.733	3.510	1.00
	16.21	A	C							
	ATOM	810	OG1	THR	A	112	-8.900	3.480	4.333	1.00
	17.07	A	O							
10	ATOM	811	CG2	THR	A	112	-7.909	2.838	2.305	1.00
	16.70	A	C							
	ATOM	812	C	THR	A	112	-5.252	3.711	3.442	1.00
	15.86	A	C							
	ATOM	813	O	THR	A	112	-4.623	2.789	2.869	1.00
	15.50	A	O							
15	ATOM	814	N	LEU	A	113	-4.933	4.995	3.303	1.00
	14.75	A	N							
	ATOM	815	CA	LEU	A	113	-3.742	5.413	2.558	1.00
	14.05	A	C							
20	ATOM	816	CB	LEU	A	113	-3.677	6.941	2.557	1.00
	14.27	A	C							
	ATOM	817	CG	LEU	A	113	-2.549	7.597	1.807	1.00
	14.53	A	C							
	ATOM	818	CD1	LEU	A	113	-2.840	7.473	0.297	1.00
	16.65	A	C							
25	ATOM	819	CD2	LEU	A	113	-2.412	9.039	2.212	1.00
	13.95	A	C							
	ATOM	820	C	LEU	A	113	-2.478	4.836	3.212	1.00
	13.77	A	C							
30	ATOM	821	O	LEU	A	113	-1.625	4.238	2.550	1.00
	13.55	A	O							
	ATOM	822	N	PHE	A	114	-2.361	5.016	4.523	1.00
	12.95	A	N							

	ATOM	823	CA	PHE	A	114	-1.182	4.528	5.223	1.00
	13.04	A	C							
	ATOM	824	CB	PHE	A	114	-1.154	5.049	6.645	1.00
	12.56	A	C							
5	ATOM	825	CG	PHE	A	114	-1.331	6.551	6.743	1.00
	11.79	A	C							
	ATOM	826	CD1	PHE	A	114	-0.639	7.402	5.902	1.00
	12.07	A	C							
10	ATOM	827	CE1	PHE	A	114	-0.785	8.781	5.986	1.00
	12.47	A	C							
	ATOM	828	CZ	PHE	A	114	-1.662	9.323	6.921	1.00
	13.57	A	C							
	ATOM	829	CE2	PHE	A	114	-2.365	8.470	7.754	1.00
	11.94	A	C							
15	ATOM	830	CD2	PHE	A	114	-2.186	7.100	7.663	1.00
	9.85	A	C							
	ATOM	831	C	PHE	A	114	-1.060	3.003	5.171	1.00
	13.86	A	C							
20	ATOM	832	O	PHE	A	114	0.063	2.461	5.004	1.00
	12.73	A	O							
	ATOM	833	N	SER	A	115	-2.196	2.306	5.277	1.00
	14.04	A	N							
	ATOM	834	CA	SER	A	115	-2.148	0.848	5.292	1.00
	14.17	A	C							
25	ATOM	835	CB	BSER	A	115	-3.527	0.252	5.640	0.50
	13.81	A	C							
	ATOM	836	CB	ASER	A	115	-3.457	0.215	5.769	0.50
	14.55	A	C							
30	ATOM	837	OG	BSER	A	115	-3.970	0.566	6.958	0.50
	10.51	A	O							
	ATOM	838	OG	ASER	A	115	-4.544	0.608	4.978	0.50
	18.03	A	O							

	ATOM	839	C	SER	A	115	-1.677	0.296	3.943	1.00
	14.11	A	C							
	ATOM	840	O	SER	A	115	-0.932	-0.663	3.909	1.00
	13.43	A	O							
5	ATOM	841	N	GLN	A	116	-2.108	0.890	2.832	1.00
	14.73	A	N							
	ATOM	842	CA	GLN	A	116	-1.656	0.442	1.513	1.00
	14.53	A	C							
10	ATOM	843	CB	GLN	A	116	-2.394	1.234	0.417	1.00
	15.81	A	C							
	ATOM	844	CG	GLN	A	116	-1.947	0.951	-1.038	1.00
	15.88	A	C							
	ATOM	845	CD	GLN	A	116	-2.601	1.886	-2.007	1.00
	16.75	A	C							
15	ATOM	846	OE1	GLN	A	116	-2.629	3.086	-1.747	1.00
	14.56	A	O							
	ATOM	847	NE2	GLN	A	116	-3.200	1.346	-3.106	1.00
	14.07	A	N							
20	ATOM	848	C	GLN	A	116	-0.131	0.571	1.375	1.00
	14.16	A	C							
	ATOM	849	O	GLN	A	116	0.554	-0.336	0.861	1.00
	14.37	A	O							
	ATOM	850	N	ALA	A	117	0.407	1.679	1.862	1.00
	13.34	A	N							
25	ATOM	851	CA	ALA	A	117	1.838	1.930	1.795	1.00
	13.79	A	C							
	ATOM	852	CB	ALA	A	117	2.152	3.408	2.151	1.00
	13.52	A	C							
30	ATOM	853	C	ALA	A	117	2.608	0.972	2.714	1.00
	13.17	A	C							
	ATOM	854	O	ALA	A	117	3.666	0.472	2.344	1.00
	13.07	A	O							

	ATOM 13.32	855 A	N N	TYR A 118	2.071	0.740	3.908	1.00
	ATOM 13.82	856 A	CA C	TYR A 118	2.679	-0.161	4.877	1.00
5	ATOM 14.02	857 A	CB C	TYR A 118	1.878	-0.177	6.190	1.00
	ATOM 17.04	858 A	CG C	TYR A 118	2.636	-0.861	7.324	1.00
10	ATOM 20.14	859 A	CD1 C	TYR A 118	2.472	-2.216	7.589	1.00
	ATOM 24.14	860 A	CE1 C	TYR A 118	3.186	-2.839	8.640	1.00
	ATOM 23.61	861 A	CZ C	TYR A 118	4.041	-2.071	9.409	1.00
15	ATOM 28.49	862 A	OH O	TYR A 118	4.762	-2.631	10.442	1.00
	ATOM 20.69	863 A	CE2 C	TYR A 118	4.194	-0.725	9.155	1.00
20	ATOM 18.61	864 A	CD2 C	TYR A 118	3.501	-0.135	8.136	1.00
	ATOM 14.18	865 A	C C	TYR A 118	2.782	-1.576	4.294	1.00
	ATOM 14.05	866 A	O O	TYR A 118	3.838	-2.228	4.363	1.00
25	ATOM 14.24	867 A	N N	SER A 119	1.705	-2.024	3.669	1.00
	ATOM 15.13	868 A	CA C	SER A 119	1.684	-3.358	3.064	1.00
30	ATOM 14.77	869 A	CB C	SER A 119	0.288	-3.660	2.544	1.00
	ATOM 13.56	870 A	OG O	SER A 119	-0.609	-3.744	3.638	1.00

	ATOM	871	C	SER A 119	2.752	-3.531	1.977	1.00
	15.67	A	C					
	ATOM	872	O	SER A 119	3.313	-4.602	1.818	1.00
	15.80	A	O					
5	ATOM	873	N	ALA A 120	3.052	-2.461	1.254	1.00
	16.24	A	N					
	ATOM	874	CA	ALA A 120	4.085	-2.488	0.204	1.00
	15.93	A	C					
10	ATOM	875	CB	ALA A 120	3.847	-1.352	-0.759	1.00
	16.16	A	C					
	ATOM	876	C	ALA A 120	5.504	-2.405	0.767	1.00
	16.13	A	C					
	ATOM	877	O	ALA A 120	6.474	-2.473	0.030	1.00
	16.93	A	O					
15	ATOM	878	N	GLY A 121	5.626	-2.249	2.083	1.00
	16.23	A	N					
	ATOM	879	CA	GLY A 121	6.917	-2.249	2.747	1.00
	15.35	A	C					
20	ATOM	880	C	GLY A 121	7.400	-0.883	3.247	1.00
	15.15	A	C					
	ATOM	881	O	GLY A 121	8.466	-0.811	3.893	1.00
	15.57	A	O					
	ATOM	882	N	ALA A 122	6.665	0.195	2.977	1.00
	14.40	A	N					
25	ATOM	883	CA	ALA A 122	7.110	1.522	3.443	1.00
	14.85	A	C					
	ATOM	884	CB	ALA A 122	6.273	2.632	2.831	1.00
	14.84	A	C					
30	ATOM	885	C	ALA A 122	7.057	1.635	4.964	1.00
	14.35	A	C					
	ATOM	886	O	ALA A 122	6.078	1.230	5.574	1.00
	15.21	A	O					

	ATOM	887	N	ARG	A	123	8.077	2.223	5.570	1.00
	13.62	A	N							
	ATOM	888	CA	ARG	A	123	8.013	2.499	7.008	1.00
	12.85	A	C							
5	ATOM	889	CB	ARG	A	123	9.065	1.689	7.761	1.00
	12.85	A	C							
	ATOM	890	CG	ARG	A	123	8.870	0.162	7.597	1.00
	13.74	A	C							
10	ATOM	891	CD	ARG	A	123	7.584	-0.334	8.290	1.00
	14.35	A	C							
	ATOM	892	NE	ARG	A	123	7.396	-1.786	8.187	1.00
	14.77	A	N							
	ATOM	893	CZ	ARG	A	123	6.676	-2.389	7.253	1.00
	16.63	A	C							
15	ATOM	894	NH1	ARG	A	123	6.039	-1.678	6.337	1.00
	15.68	A	N							
	ATOM	895	NH2	ARG	A	123	6.579	-3.719	7.240	1.00
	17.36	A	N							
20	ATOM	896	C	ARG	A	123	8.132	3.987	7.298	1.00
	12.72	A	C							
	ATOM	897	O	ARG	A	123	8.116	4.418	8.448	1.00
	12.15	A	O							
	ATOM	898	N	ILE	A	124	8.225	4.773	6.234	1.00
	12.67	A	N							
25	ATOM	899	CA	ILE	A	124	8.177	6.218	6.346	1.00
	12.97	A	C							
	ATOM	900	CB	ILE	A	124	9.554	6.814	6.025	1.00
	12.64	A	C							
30	ATOM	901	CG1	ILE	A	124	10.619	6.262	6.985	1.00
	13.71	A	C							
	ATOM	902	CD1	ILE	A	124	12.068	6.395	6.480	1.00
	14.82	A	C							

	ATOM	903	CG2	ILE	A	124	9.478	8.348	6.061	1.00
	13.97	A	C							
	ATOM	904	C	ILE	A	124	7.160	6.695	5.324	1.00
	12.91	A	C							
5	ATOM	905	O	ILE	A	124	7.132	6.195	4.210	1.00
	13.07	A	O							
	ATOM	906	N	HIS	A	125	6.365	7.696	5.671	1.00
	12.94	A	N							
10	ATOM	907	CA	HIS	A	125	5.252	8.100	4.823	1.00
	12.77	A	C							
	ATOM	908	CB	HIS	A	125	3.894	7.549	5.353	1.00
	13.00	A	C							
	ATOM	909	CG	HIS	A	125	2.806	7.650	4.334	1.00
	15.91	A	C							
15	ATOM	910	ND1	HIS	A	125	2.428	8.850	3.783	1.00
	13.47	A	N							
	ATOM	911	CE1	HIS	A	125	1.547	8.632	2.821	1.00
	16.40	A	C							
20	ATOM	912	NE2	HIS	A	125	1.312	7.333	2.756	1.00
	16.49	A	N							
	ATOM	913	CD2	HIS	A	125	2.072	6.699	3.705	1.00
	18.35	A	C							
	ATOM	914	C	HIS	A	125	5.223	9.620	4.828	1.00
	12.62	A	C							
25	ATOM	915	O	HIS	A	125	5.053	10.202	5.893	1.00
	12.04	A	O							
	ATOM	916	N	THR	A	126	5.401	10.268	3.674	1.00
	12.71	A	N							
30	ATOM	917	CA	THR	A	126	5.527	11.738	3.641	1.00
	12.63	A	C							
	ATOM	918	CB	THR	A	126	6.984	12.142	3.302	1.00
	12.63	A	C							

	ATOM 12.18	919 A	OG1 O	THR A 126	7.121	13.560	3.334	1.00
	ATOM 12.36	920 A	CG2 C	THR A 126	7.395	11.747	1.864	1.00
5	ATOM 12.60	921 A	C C	THR A 126	4.498	12.426	2.735	1.00
	ATOM 12.62	922 A	O O	THR A 126	4.166	11.931	1.652	1.00
10	ATOM 12.52	923 A	N N	ASN A 127	4.010	13.572	3.200	1.00
	ATOM 12.84	924 A	CA C	ASN A 127	2.778	14.189	2.696	1.00
	ATOM 13.04	925 A	CB C	ASN A 127	1.599	13.811	3.605	1.00
15	ATOM 13.25	926 A	CG C	ASN A 127	1.433	12.325	3.720	1.00
	ATOM 13.15	927 A	OD1 O	ASN A 127	1.916	11.686	4.690	1.00
20	ATOM 9.82	928 A	ND2 N	ASN A 127	0.814	11.740	2.712	1.00
	ATOM 12.70	929 A	C C	ASN A 127	2.894	15.706	2.637	1.00
	ATOM 13.27	930 A	O O	ASN A 127	2.798	16.390	3.661	1.00
25	ATOM 12.76	931 A	N N	SER A 128	3.103	16.211	1.435	1.00
	ATOM 13.02	932 A	CA C	SER A 128	3.277	17.640	1.162	1.00
30	ATOM 12.57	933 A	CB C	SER A 128	4.308	17.831	0.043	1.00
	ATOM 12.52	934 A	OG O	SER A 128	5.608	17.510	0.485	1.00

	ATOM	935	C	SER	A	128	1.927	18.238	0.748	1.00
	13.42	A	C							
	ATOM	936	O	SER	A	128	1.763	18.767	-0.372	1.00
	13.82	A	O							
5	ATOM	937	N	TRP	A	129	0.968	18.129	1.663	1.00
	13.86	A	N							
	ATOM	938	CA	TRP	A	129	-0.392	18.616	1.465	1.00
	13.67	A	C							
10	ATOM	939	CB	TRP	A	129	-1.215	17.648	0.602	1.00
	13.88	A	C							
	ATOM	940	CG	TRP	A	129	-1.130	16.180	0.964	1.00
	13.08	A	C							
	ATOM	941	CD1	TRP	A	129	-0.305	15.232	0.391	1.00
	14.80	A	C							
15	ATOM	942	NE1	TRP	A	129	-0.531	13.997	0.956	1.00
	12.40	A	N							
	ATOM	943	CE2	TRP	A	129	-1.518	14.122	1.900	1.00
	13.40	A	C							
20	ATOM	944	CD2	TRP	A	129	-1.924	15.480	1.921	1.00
	12.64	A	C							
	ATOM	945	CE3	TRP	A	129	-2.948	15.857	2.806	1.00
	14.15	A	C							
	ATOM	946	CZ3	TRP	A	129	-3.504	14.910	3.614	1.00
	13.25	A	C							
25	ATOM	947	CH2	TRP	A	129	-3.082	13.566	3.559	1.00
	13.78	A	C							
	ATOM	948	CZ2	TRP	A	129	-2.101	13.158	2.711	1.00
	12.56	A	C							
30	ATOM	949	C	TRP	A	129	-1.089	18.859	2.782	1.00
	14.44	A	C							
	ATOM	950	O	TRP	A	129	-0.612	18.460	3.876	1.00
	14.19	A	O							

	ATOM	951	N	GLY	A	130	-2.224	19.538	2.694	1.00
	14.75	A	N							
	ATOM	952	CA	GLY	A	130	-3.004	19.834	3.866	1.00
	15.45	A	C							
5	ATOM	953	C	GLY	A	130	-4.173	20.744	3.563	1.00
	16.66	A	C							
	ATOM	954	O	GLY	A	130	-4.203	21.394	2.518	1.00
	16.04	A	O							
10	ATOM	955	N	ALA	A	131	-5.139	20.754	4.478	1.00
	16.87	A	N							
	ATOM	956	CA	ALA	A	131	-6.222	21.733	4.484	1.00
	18.19	A	C							
	ATOM	957	CB	ALA	A	131	-7.515	21.097	4.983	1.00
	17.33	A	C							
15	ATOM	958	C	ALA	A	131	-5.843	22.852	5.423	1.00
	19.54	A	C							
	ATOM	959	O	ALA	A	131	-5.562	22.590	6.592	1.00
	20.18	A	O							
20	ATOM	960	N	PRO	A	132	-5.869	24.090	4.942	1.00
	20.97	A	N							
	ATOM	961	CA	PRO	A	132	-5.513	25.253	5.763	1.00
	21.46	A	C							
	ATOM	962	CB	PRO	A	132	-5.260	26.346	4.724	1.00
	21.95	A	C							
25	ATOM	963	CG	PRO	A	132	-6.060	25.967	3.546	1.00
	22.18	A	C							
	ATOM	964	CD	PRO	A	132	-6.220	24.462	3.564	1.00
	21.43	A	C							
30	ATOM	965	C	PRO	A	132	-6.595	25.676	6.753	1.00
	22.74	A	C							
	ATOM	966	O	PRO	A	132	-7.272	26.703	6.555	1.00
	24.13	A	O							

	ATOM	967	N	VAL A 133	-6.708	24.912	7.833	1.00
	22.71	A	N					
	ATOM	968	CA	VAL A 133	-7.723	25.086	8.850	1.00
	23.39	A	C					
5	ATOM	969	CB	VAL A 133	-8.349	23.712	9.223	1.00
	23.48	A	C					
	ATOM	970	CG1	VAL A 133	-9.115	23.133	8.045	1.00
	25.68	A	C					
10	ATOM	971	CG2	VAL A 133	-7.269	22.750	9.687	1.00
	24.53	A	C					
	ATOM	972	C	VAL A 133	-7.223	25.742	10.150	1.00
	23.23	A	C					
	ATOM	973	O	VAL A 133	-7.855	25.599	11.185	1.00
	22.57	A	O					
15	ATOM	974	N	ASN A 134	-6.094	26.437	10.098	1.00
	23.10	A	N					
	ATOM	975	CA	ASN A 134	-5.660	27.279	11.201	1.00
	23.36	A	C					
20	ATOM	976	CB	ASN A 134	-6.583	28.512	11.310	1.00
	24.40	A	C					
	ATOM	977	CG	ASN A 134	-6.491	29.413	10.082	1.00
	26.68	A	C					
	ATOM	978	OD1	ASN A 134	-7.489	30.000	9.650	1.00
	34.40	A	O					
25	ATOM	979	ND2	ASN A 134	-5.315	29.478	9.482	1.00
	28.87	A	N					
	ATOM	980	C	ASN A 134	-5.588	26.561	12.535	1.00
	22.43	A	C					
30	ATOM	981	O	ASN A 134	-6.210	26.971	13.510	1.00
	21.30	A	O					
	ATOM	982	N	GLY A 135	-4.844	25.458	12.574	1.00
	21.06	A	N					

	ATOM	983	CA	GLY	A	135	-4.548	24.840	13.846	1.00
	20.36	A	C							
	ATOM	984	C	GLY	A	135	-5.541	23.818	14.308	1.00
	19.66	A	C							
5	ATOM	985	O	GLY	A	135	-5.320	23.200	15.327	1.00
	18.95	A	O							
	ATOM	986	N	ALA	A	136	-6.613	23.595	13.557	1.00
	19.08	A	N							
10	ATOM	987	CA	ALA	A	136	-7.609	22.643	14.006	1.00
	19.00	A	C							
	ATOM	988	CB	ALA	A	136	-8.925	22.778	13.199	1.00
	19.34	A	C							
	ATOM	989	C	ALA	A	136	-7.098	21.206	13.893	1.00
	19.31	A	C							
15	ATOM	990	O	ALA	A	136	-6.354	20.851	12.952	1.00
	18.44	A	O							
	ATOM	991	N	TYR	A	137	-7.568	20.407	14.841	1.00
	18.56	A	N							
20	ATOM	992	CA	TYR	A	137	-7.341	18.979	14.907	1.00
	18.99	A	C							
	ATOM	993	CB	TYR	A	137	-7.112	18.588	16.367	1.00
	18.67	A	C							
	ATOM	994	CG	TYR	A	137	-6.637	17.175	16.588	1.00
	19.68	A	C							
25	ATOM	995	CD1	TYR	A	137	-7.537	16.173	16.885	1.00
	19.55	A	C							
	ATOM	996	CE1	TYR	A	137	-7.112	14.855	17.099	1.00
	21.07	A	C							
30	ATOM	997	CZ	TYR	A	137	-5.765	14.548	17.045	1.00
	20.92	A	C							
	ATOM	998	OH	TYR	A	137	-5.371	13.250	17.265	1.00
	20.20	A	O							

	ATOM	999	CE2	TYR	A	137	-4.837	15.538	16.754	1.00
	20.35	A	C							
	ATOM	1000	CD2	TYR	A	137	-5.278	16.848	16.522	1.00
	19.75	A	C							
5	ATOM	1001	C	TYR	A	137	-8.600	18.314	14.337	1.00
	18.91	A	C							
	ATOM	1002	O	TYR	A	137	-9.648	18.229	14.994	1.00
	18.41	A	O							
10	ATOM	1003	N	THR	A	138	-8.481	17.872	13.091	1.00
	18.62	A	N							
	ATOM	1004	CA	THR	A	138	-9.608	17.401	12.329	1.00
	17.86	A	C							
	ATOM	1005	CB	THR	A	138	-9.480	17.836	10.897	1.00
	18.02	A	C							
15	ATOM	1006	OG1	THR	A	138	-8.271	17.308	10.321	1.00
	16.63	A	O							
	ATOM	1007	CG2	THR	A	138	-9.308	19.330	10.788	1.00
	17.63	A	C							
20	ATOM	1008	C	THR	A	138	-9.593	15.888	12.407	1.00
	18.43	A	C							
	ATOM	1009	O	THR	A	138	-8.662	15.296	12.954	1.00
	17.82	A	O							
	ATOM	1010	N	THR	A	139	-10.624	15.278	11.843	1.00
	18.06	A	N							
25	ATOM	1011	CA	THR	A	139	-10.713	13.843	11.705	1.00
	17.69	A	C							
	ATOM	1012	CB	THR	A	139	-12.020	13.472	10.947	1.00
	18.57	A	C							
30	ATOM	1013	OG1	THR	A	139	-13.162	13.907	11.705	1.00
	20.05	A	O							
	ATOM	1014	CG2	THR	A	139	-12.173	11.933	10.828	1.00
	19.16	A	C							

	ATOM	1015	C	THR	A	139	-9.496	13.285	10.989	1.00
	16.78	A	C							
	ATOM	1016	O	THR	A	139	-9.037	12.183	11.307	1.00
	17.05	A	O							
5	ATOM	1017	N	ASP	A	140	-8.976	14.002	10.002	1.00
	15.81	A	N							
	ATOM	1018	CA	ASP	A	140	-7.758	13.544	9.351	1.00
	15.65	A	C							
10	ATOM	1019	CB	ASP	A	140	-7.391	14.429	8.177	1.00
	15.45	A	C							
	ATOM	1020	CG	ASP	A	140	-8.279	14.209	6.984	1.00
	16.65	A	C							
	ATOM	1021	OD1	ASP	A	140	-8.495	15.189	6.263	1.00
	18.76	A	O							
15	ATOM	1022	OD2	ASP	A	140	-8.781	13.102	6.702	1.00
	16.74	A	O							
	ATOM	1023	C	ASP	A	140	-6.567	13.504	10.352	1.00
	15.55	A	C							
20	ATOM	1024	O	ASP	A	140	-5.823	12.532	10.395	1.00
	15.72	A	O							
	ATOM	1025	N	SER	A	141	-6.395	14.555	11.133	1.00
	15.34	A	N							
	ATOM	1026	CA	SER	A	141	-5.375	14.548	12.187	1.00
	15.53	A	C							
25	ATOM	1027	CB	SER	A	141	-5.428	15.823	13.006	1.00
	14.57	A	C							
	ATOM	1028	OG	SER	A	141	-5.275	16.936	12.173	1.00
	16.14	A	O							
30	ATOM	1029	C	SER	A	141	-5.514	13.375	13.157	1.00
	15.46	A	C							
	ATOM	1030	O	SER	A	141	-4.511	12.754	13.558	1.00
	15.37	A	O							

	ATOM	1031	N	ARG	A	142	-6.754	13.100	13.546	1.00
	15.27	A	N							
	ATOM	1032	CA	ARG	A	142	-7.053	11.998	14.462	1.00
	15.97	A	C							
5	ATOM	1033	CB	ARG	A	142	-8.539	12.004	14.843	1.00
	16.78	A	C							
	ATOM	1034	CG	ARG	A	142	-8.882	11.091	16.022	1.00
	18.90	A	C							
10	ATOM	1035	CD	ARG	A	142	-10.365	11.103	16.436	1.00
	22.40	A	C							
	ATOM	1036	NE	ARG	A	142	-10.533	10.384	17.704	1.00
	25.70	A	N							
	ATOM	1037	CZ	ARG	A	142	-10.549	9.057	17.839	1.00
	29.38	A	C							
15	ATOM	1038	NH1	ARG	A	142	-10.423	8.249	16.786	1.00
	30.26	A	N							
	ATOM	1039	NH2	ARG	A	142	-10.685	8.524	19.048	1.00
	30.56	A	N							
20	ATOM	1040	C	ARG	A	142	-6.703	10.643	13.860	1.00
	15.43	A	C							
	ATOM	1041	O	ARG	A	142	-6.107	9.778	14.534	1.00
	14.36	A	O							
	ATOM	1042	N	ASN	A	143	-7.068	10.437	12.593	1.00
	14.96	A	N							
25	ATOM	1043	CA	ASN	A	143	-6.699	9.187	11.926	1.00
	14.70	A	C							
	ATOM	1044	CB	ASN	A	143	-7.451	9.062	10.593	1.00
	15.54	A	C							
30	ATOM	1045	CG	ASN	A	143	-8.952	8.709	10.803	1.00
	16.85	A	C							
	ATOM	1046	OD1	ASN	A	143	-9.842	9.204	10.096	1.00
	20.66	A	O							

	ATOM	1047	ND2	ASN	A	143	-9.206	7.828	11.746	1.00
	15.73	A	N							
	ATOM	1048	C	ASN	A	143	-5.183	8.986	11.754	1.00
	15.26	A	C							
5	ATOM	1049	O	ASN	A	143	-4.691	7.854	11.879	1.00
	15.15	A	O							
	ATOM	1050	N	VAL	A	144	-4.438	10.060	11.450	1.00
	14.90	A	N							
10	ATOM	1051	CA	VAL	A	144	-2.976	9.987	11.467	1.00
	13.93	A	C							
	ATOM	1052	CB	VAL	A	144	-2.319	11.347	11.177	1.00
	14.08	A	C							
	ATOM	1053	CG1	VAL	A	144	-0.803	11.272	11.422	1.00
	12.32	A	C							
15	ATOM	1054	CG2	VAL	A	144	-2.625	11.818	9.748	1.00
	13.08	A	C							
	ATOM	1055	C	VAL	A	144	-2.478	9.507	12.843	1.00
	14.23	A	C							
20	ATOM	1056	O	VAL	A	144	-1.608	8.653	12.938	1.00
	13.96	A	O							
	ATOM	1057	N	ASP	A	145	-3.021	10.077	13.916	1.00
	14.48	A	N							
	ATOM	1058	CA	ASP	A	145	-2.548	9.745	15.256	1.00
	14.49	A	C							
25	ATOM	1059	CB	ASP	A	145	-3.123	10.711	16.249	1.00
	14.81	A	C							
	ATOM	1060	CG	ASP	A	145	-2.406	12.033	16.218	1.00
	15.70	A	C							
30	ATOM	1061	OD1	ASP	A	145	-1.332	12.107	15.545	1.00
	14.69	A	O							
	ATOM	1062	OD2	ASP	A	145	-2.845	13.048	16.803	1.00
	14.46	A	O							

	ATOM	1063	C	ASP	A	145	-2.849	8.331	15.654	1.00
	15.08	A	C							
	ATOM	1064	O	ASP	A	145	-1.999	7.622	16.183	1.00
	14.89	A	O							
5	ATOM	1065	N	ASP	A	146	-4.065	7.906	15.361	1.00
	15.66	A	N							
	ATOM	1066	CA	ASP	A	146	-4.470	6.545	15.608	1.00
	15.98	A	C							
10	ATOM	1067	CB	ASP	A	146	-5.931	6.400	15.184	1.00
	16.37	A	C							
	ATOM	1068	CG	ASP	A	146	-6.565	5.107	15.705	1.00
	17.81	A	C							
	ATOM	1069	OD1	ASP	A	146	-6.337	4.735	16.879	1.00
	18.17	A	O							
15	ATOM	1070	OD2	ASP	A	146	-7.277	4.401	14.981	1.00
	21.66	A	O							
	ATOM	1071	C	ASP	A	146	-3.562	5.571	14.849	1.00
	16.07	A	C							
20	ATOM	1072	O	ASP	A	146	-3.047	4.607	15.408	1.00
	16.60	A	O							
	ATOM	1073	N	TYR	A	147	-3.324	5.842	13.576	1.00
	15.73	A	N							
	ATOM	1074	CA	TYR	A	147	-2.463	4.988	12.772	1.00
	15.49	A	C							
25	ATOM	1075	CB	TYR	A	147	-2.387	5.486	11.314	1.00
	15.22	A	C							
	ATOM	1076	CG	TYR	A	147	-1.759	4.421	10.459	1.00
	16.31	A	C							
30	ATOM	1077	CD1	TYR	A	147	-0.400	4.394	10.249	1.00
	17.35	A	C							
	ATOM	1078	CE1	TYR	A	147	0.180	3.380	9.506	1.00
	17.49	A	C							

	ATOM	1079	CZ	TYR	A	147	-0.599	2.364	9.004	1.00
	16.46	A	C							
	ATOM	1080	OH	TYR	A	147	-0.022	1.354	8.281	1.00
	20.80	A	O							
5	ATOM	1081	CE2	TYR	A	147	-1.944	2.346	9.227	1.00
	16.19	A	C							
	ATOM	1082	CD2	TYR	A	147	-2.523	3.364	9.947	1.00
	16.98	A	C							
10	ATOM	1083	C	TYR	A	147	-1.025	4.833	13.309	1.00
	15.68	A	C							
	ATOM	1084	O	TYR	A	147	-0.491	3.719	13.385	1.00
	14.79	A	O							
	ATOM	1085	N	VAL	A	148	-0.399	5.953	13.652	1.00
	16.33	A	N							
15	ATOM	1086	CA	VAL	A	148	0.975	5.950	14.144	1.00
	16.18	A	C							
	ATOM	1087	CB	VAL	A	148	1.534	7.390	14.262	1.00
	16.37	A	C							
20	ATOM	1088	CG1	VAL	A	148	2.953	7.397	14.909	1.00
	17.53	A	C							
	ATOM	1089	CG2	VAL	A	148	1.600	8.044	12.899	1.00
	16.39	A	C							
	ATOM	1090	C	VAL	A	148	1.063	5.206	15.488	1.00
	16.59	A	C							
25	ATOM	1091	O	VAL	A	148	2.022	4.481	15.765	1.00
	16.63	A	O							
	ATOM	1092	N	ARG	A	149	0.061	5.356	16.331	1.00
	16.70	A	N							
30	ATOM	1093	CA	ARG	A	149	0.109	4.628	17.589	1.00
	18.28	A	C							
	ATOM	1094	CB	ARG	A	149	-0.920	5.133	18.600	1.00
	18.33	A	C							

	ATOM	1095	CG	ARG	A	149	-0.585	4.657	20.002	1.00
	19.51	A	C							
	ATOM	1096	CD	ARG	A	149	-1.566	5.035	21.071	1.00
	20.84	A	C							
5	ATOM	1097	NE	ARG	A	149	-0.987	4.731	22.383	1.00
	22.92	A	N							
	ATOM	1098	CZ	ARG	A	149	-1.661	4.491	23.504	1.00
	24.06	A	C							
10	ATOM	1099	NH1	ARG	A	149	-2.985	4.521	23.538	1.00
	25.69	A	N							
	ATOM	1100	NH2	ARG	A	149	-0.987	4.221	24.616	1.00
	23.61	A	N							
	ATOM	1101	C	ARG	A	149	-0.035	3.126	17.382	1.00
	18.63	A	C							
15	ATOM	1102	O	ARG	A	149	0.517	2.346	18.156	1.00
	18.97	A	O							
	ATOM	1103	N	LYS	A	150	-0.739	2.720	16.326	1.00
	18.98	A	N							
20	ATOM	1104	CA	LYS	A	150	-0.991	1.294	16.087	1.00
	19.24	A	C							
	ATOM	1105	CB	LYS	A	150	-2.373	1.092	15.438	1.00
	19.89	A	C							
	ATOM	1106	CG	LYS	A	150	-3.576	1.358	16.389	1.00
	21.34	A	C							
25	ATOM	1107	CD	LYS	A	150	-4.902	0.972	15.736	1.00
	24.20	A	C							
	ATOM	1108	CE	LYS	A	150	-6.136	1.437	16.531	1.00
	27.20	A	C							
30	ATOM	1109	NZ	LYS	A	150	-7.373	1.614	15.668	1.00
	30.36	A	N							
	ATOM	1110	C	LYS	A	150	0.123	0.622	15.250	1.00
	18.99	A	C							

	ATOM	1111	O	LYS	A	150	0.296	-0.577	15.305	1.00
	17.16	A	O							
	ATOM	1112	N	ASN	A	151	0.916	1.407	14.526	1.00
	19.09	A	N							
5	ATOM	1113	CA	ASN	A	151	1.834	0.850	13.538	1.00
	19.75	A	C							
	ATOM	1114	CB	ASN	A	151	1.225	0.950	12.130	1.00
	20.10	A	C							
10	ATOM	1115	CG	ASN	A	151	-0.141	0.299	12.025	1.00
	19.86	A	C							
	ATOM	1116	OD1	ASN	A	151	-0.239	-0.905	11.855	1.00
	19.33	A	O							
	ATOM	1117	ND2	ASN	A	151	-1.198	1.090	12.167	1.00
	19.31	A	N							
15	ATOM	1118	C	ASN	A	151	3.150	1.599	13.557	1.00
	20.21	A	C							
	ATOM	1119	O	ASN	A	151	3.193	2.807	13.793	1.00
	22.14	A	O							
20	ATOM	1120	N	ASP	A	152	4.239	0.911	13.299	1.00
	20.04	A	N							
	ATOM	1121	CA	ASP	A	152	5.508	1.595	13.319	1.00
	20.51	A	C							
	ATOM	1122	CB	BASP	A	152	6.571	0.640	13.830	0.35
	20.16	A	C							
25	ATOM	1123	CB	AASP	A	152	6.645	0.666	13.762	0.65
	21.56	A	C							
	ATOM	1124	CG	BASP	A	152	6.199	0.067	15.205	0.35
	19.09	A	C							
30	ATOM	1125	CG	AASP	A	152	7.225	-0.117	12.631	0.65
	23.76	A	C							
	ATOM	1126	OD1	BASP	A	152	5.318	0.654	15.901	0.35
	15.06	A	O							

	ATOM	1127	OD1AASP	A	152	6.404	-0.719	11.924	0.65
	27.77	A	O						
	ATOM	1128	OD2BASP	A	152	6.703	-0.977	15.653	0.35
	16.81	A	O						
5	ATOM	1129	OD2AASP	A	152	8.471	-0.170	12.353	0.65
	27.40	A	O						
	ATOM	1130	C	ASP	A	152	5.822	2.270	11.959
	19.32	A	C						1.00
	ATOM	1131	O	ASP	A	152	6.748	1.916	11.253
10	20.60	A	O						1.00
	ATOM	1132	N	MET	A	153	4.988	3.250	11.628
	16.58	A	N						1.00
	ATOM	1133	CA	MET	A	153	5.154	4.050	10.437
	16.03	A	C						1.00
15	ATOM	1134	CB	MET	A	153	3.876	4.007	9.619
	16.23	A	C						1.00
	ATOM	1135	CG	MET	A	153	3.885	4.921	8.432
	18.33	A	C						1.00
	ATOM	1136	SD	MET	A	153	4.694	4.182	7.030
20	21.72	A	S						1.00
	ATOM	1137	CE	MET	A	153	3.290	3.549	6.297
	21.74	A	C						1.00
	ATOM	1138	C	MET	A	153	5.443	5.482	10.871
	14.80	A	C						1.00
25	ATOM	1139	O	MET	A	153	4.684	6.058	11.646
	13.50	A	O						1.00
	ATOM	1140	N	THR	A	154	6.525	6.059	10.368
	13.34	A	N						1.00
	ATOM	1141	CA	THR	A	154	6.813	7.482	10.638
30	13.08	A	C						1.00
	ATOM	1142	CB	THR	A	154	8.324	7.699	10.652
	13.02	A	C						1.00

	ATOM	1143	OG1	THR	A	154	8.886	6.949	11.724	1.00
	11.51	A	O							
	ATOM	1144	CG2	THR	A	154	8.693	9.145	10.963	1.00
	14.36	A	C							
5	ATOM	1145	C	THR	A	154	6.153	8.310	9.573	1.00
	12.50	A	C							
	ATOM	1146	O	THR	A	154	6.396	8.108	8.371	1.00
	12.64	A	O							
10	ATOM	1147	N	ILE	A	155	5.290	9.227	9.987	1.00
	12.34	A	N							
	ATOM	1148	CA	ILE	A	155	4.492	10.002	9.037	1.00
	13.00	A	C							
	ATOM	1149	CB	ILE	A	155	2.983	9.799	9.346	1.00
	13.05	A	C							
15	ATOM	1150	CG1	ILE	A	155	2.637	8.307	9.279	1.00
	13.73	A	C							
	ATOM	1151	CD1	ILE	A	155	1.121	8.017	9.274	1.00
	12.93	A	C							
20	ATOM	1152	CG2	ILE	A	155	2.121	10.578	8.371	1.00
	13.58	A	C							
	ATOM	1153	C	ILE	A	155	4.861	11.480	9.137	1.00
	13.01	A	C							
	ATOM	1154	O	ILE	A	155	4.894	12.038	10.233	1.00
	12.79	A	O							
25	ATOM	1155	N	LEU	A	156	5.125	12.117	8.001	1.00
	12.16	A	N							
	ATOM	1156	CA	LEU	A	156	5.509	13.528	7.982	1.00
	12.88	A	C							
30	ATOM	1157	CB	LEU	A	156	6.903	13.692	7.354	1.00
	12.18	A	C							
	ATOM	1158	CG	LEU	A	156	8.089	12.960	8.007	1.00
	13.25	A	C							

	ATOM	1159	CD1	LEU	A	156	8.365	11.607	7.326	1.00
	11.24	A	C							
	ATOM	1160	CD2	LEU	A	156	9.339	13.796	7.910	1.00
	13.01	A	C							
5	ATOM	1161	C	LEU	A	156	4.485	14.328	7.192	1.00
	13.49	A	C							
	ATOM	1162	O	LEU	A	156	3.982	13.850	6.160	1.00
	14.76	A	O							
10	ATOM	1163	N	PHE	A	157	4.197	15.540	7.659	1.00
	12.79	A	N							
	ATOM	1164	CA	PHE	A	157	3.282	16.451	7.003	1.00
	13.07	A	C							
	ATOM	1165	CB	PHE	A	157	1.938	16.564	7.772	1.00
	13.62	A	C							
15	ATOM	1166	CG	PHE	A	157	0.957	15.504	7.401	1.00
	13.90	A	C							
	ATOM	1167	CD1	PHE	A	157	0.191	15.636	6.272	1.00
	11.22	A	C							
20	ATOM	1168	CE1	PHE	A	157	-0.678	14.632	5.896	1.00
	14.22	A	C							
	ATOM	1169	CZ	PHE	A	157	-0.743	13.441	6.630	1.00
	14.61	A	C							
	ATOM	1170	CE2	PHE	A	157	0.013	13.296	7.743	1.00
	15.64	A	C							
25	ATOM	1171	CD2	PHE	A	157	0.891	14.312	8.122	1.00
	14.56	A	C							
	ATOM	1172	C	PHE	A	157	3.899	17.852	6.928	1.00
	13.18	A	C							
30	ATOM	1173	O	PHE	A	157	4.527	18.318	7.867	1.00
	12.04	A	O							
	ATOM	1174	N	ALA	A	158	3.700	18.500	5.793	1.00
	13.46	A	N							

	ATOM	1175	CA	ALA	A	158	3.958	19.921	5.623	1.00
	13.31	A	C							
	ATOM	1176	CB	ALA	A	158	3.509	20.334	4.235	1.00
	14.02	A	C							
5	ATOM	1177	C	ALA	A	158	3.181	20.703	6.672	1.00
	13.75	A	C							
	ATOM	1178	O	ALA	A	158	2.031	20.380	6.965	1.00
	13.75	A	O							
10	ATOM	1179	N	ALA	A	159	3.787	21.752	7.215	1.00
	13.45	A	N							
	ATOM	1180	CA	ALA	A	159	3.122	22.582	8.210	1.00
	13.81	A	C							
	ATOM	1181	CB	ALA	A	159	4.151	23.495	8.944	1.00
	13.64	A	C							
15	ATOM	1182	C	ALA	A	159	2.043	23.473	7.628	1.00
	14.14	A	C							
	ATOM	1183	O	ALA	A	159	1.175	23.924	8.364	1.00
	14.00	A	O							
20	ATOM	1184	N	GLY	A	160	2.131	23.753	6.330	1.00
	15.19	A	N							
	ATOM	1185	CA	GLY	A	160	1.230	24.680	5.652	1.00
	15.34	A	C							
	ATOM	1186	C	GLY	A	160	1.957	25.941	5.236	1.00
	14.93	A	C							
25	ATOM	1187	O	GLY	A	160	3.041	26.238	5.736	1.00
	14.62	A	O							
	ATOM	1188	N	ASN	A	161	1.371	26.686	4.307	1.00
	15.04	A	N							
30	ATOM	1189	CA	ASN	A	161	1.983	27.902	3.789	1.00
	15.84	A	C							
	ATOM	1190	CB	ASN	A	161	2.072	27.872	2.261	1.00
	15.91	A	C							

	ATOM	1191	CG	ASN	A	161	3.048	26.851	1.712	1.00
	17.40	A	C							
	ATOM	1192	OD1	ASN	A	161	3.001	26.550	0.490	1.00
	21.70	A	O							
5	ATOM	1193	ND2	ASN	A	161	3.888	26.267	2.569	1.00
	11.15	A	N							
	ATOM	1194	C	ASN	A	161	1.131	29.114	4.123	1.00
	16.84	A	C							
10	ATOM	1195	O	ASN	A	161	0.956	29.965	3.286	1.00
	17.07	A	O							
	ATOM	1196	N	GLU	A	162	0.575	29.179	5.324	1.00
	18.36	A	N							
	ATOM	1197	CA	GLU	A	162	-0.392	30.213	5.668	1.00
	18.85	A	C							
15	ATOM	1198	CB	GLU	A	162	-1.672	29.537	6.211	1.00
	19.64	A	C							
	ATOM	1199	CG	GLU	A	162	-2.431	28.723	5.150	1.00
	22.12	A	C							
20	ATOM	1200	CD	GLU	A	162	-1.756	27.381	4.788	1.00
	26.12	A	C							
	ATOM	1201	OE1	GLU	A	162	-1.585	26.545	5.702	1.00
	28.48	A	O							
	ATOM	1202	OE2	GLU	A	162	-1.405	27.149	3.590	1.00
	26.75	A	O							
25	ATOM	1203	C	GLU	A	162	0.147	31.262	6.657	1.00
	19.39	A	C							
	ATOM	1204	O	GLU	A	162	-0.633	32.031	7.225	1.00
	18.80	A	O							
30	ATOM	1205	N	GLY	A	163	1.472	31.338	6.820	1.00
	19.39	A	N							
	ATOM	1206	CA	GLY	A	163	2.082	32.322	7.705	1.00
	20.03	A	C							

	ATOM	1207	C	GLY	A	163	2.224	33.699	7.048	1.00
	21.41	A	C							
	ATOM	1208	O	GLY	A	163	1.822	33.866	5.877	1.00
	20.72	A	O							
5	ATOM	1209	N	PRO	A	164	2.835	34.671	7.737	1.00
	21.93	A	N							
	ATOM	1210	CA	PRO	A	164	3.496	34.491	9.053	1.00
	22.22	A	C							
10	ATOM	1211	CB	PRO	A	164	4.575	35.577	9.050	1.00
	22.99	A	C							
	ATOM	1212	CG	PRO	A	164	3.945	36.720	8.171	1.00
	23.13	A	C							
	ATOM	1213	CD	PRO	A	164	2.976	36.047	7.209	1.00
	22.03	A	C							
15	ATOM	1214	C	PRO	A	164	2.681	34.621	10.329	1.00
	22.18	A	C							
	ATOM	1215	O	PRO	A	164	3.289	34.603	11.414	1.00
	21.36	A	O							
20	ATOM	1216	N	GLY	A	165	1.363	34.702	10.239	1.00
	21.66	A	N							
	ATOM	1217	CA	GLY	A	165	0.537	34.844	11.414	1.00
	21.84	A	C							
	ATOM	1218	C	GLY	A	165	0.522	33.581	12.243	1.00
	22.27	A	C							
25	ATOM	1219	O	GLY	A	165	0.680	32.440	11.713	1.00
	22.20	A	O							
	ATOM	1220	N	SER	A	166	0.305	33.762	13.543	1.00
	22.06	A	N							
30	ATOM	1221	CA	SER	A	166	0.290	32.645	14.470	1.00
	21.96	A	C							
	ATOM	1222	CB	SER	A	166	0.344	33.167	15.917	1.00
	23.25	A	C							

	ATOM	1223	OG	SER	A	166	-0.948	33.579	16.367	1.00
	25.13	A	O							
	ATOM	1224	C	SER	A	166	-0.954	31.807	14.241	1.00
	21.45	A	C							
5	ATOM	1225	O	SER	A	166	-1.949	32.311	13.716	1.00
	21.15	A	O							
	ATOM	1226	N	GLY	A	167	-0.879	30.515	14.574	1.00
	20.07	A	N							
10	ATOM	1227	CA	GLY	A	167	-2.032	29.639	14.548	1.00
	19.63	A	C							
	ATOM	1228	C	GLY	A	167	-2.478	29.248	13.140	1.00
	19.18	A	C							
	ATOM	1229	O	GLY	A	167	-3.652	29.051	12.911	1.00
	18.57	A	O							
15	ATOM	1230	N	THR	A	168	-1.541	29.140	12.200	1.00
	18.31	A	N							
	ATOM	1231	CA	THR	A	168	-1.893	28.857	10.810	1.00
	17.13	A	C							
20	ATOM	1232	CB	THR	A	168	-1.295	29.958	9.908	1.00
	17.32	A	C							
	ATOM	1233	OG1	THR	A	168	0.077	30.172	10.261	1.00
	14.44	A	O							
	ATOM	1234	CG2	THR	A	168	-1.988	31.299	10.156	1.00
	17.60	A	C							
25	ATOM	1235	C	THR	A	168	-1.496	27.465	10.306	1.00
	16.75	A	C							
	ATOM	1236	O	THR	A	168	-1.462	27.213	9.091	1.00
	16.26	A	O							
30	ATOM	1237	N	ILE	A	169	-1.265	26.540	11.234	1.00
	15.95	A	N							
	ATOM	1238	CA	ILE	A	169	-0.863	25.191	10.871	1.00
	15.48	A	C							

	ATOM	1239	CB	ILE	A	169	-0.454	24.378	12.127	1.00
	15.09	A	C							
	ATOM	1240	CG1	ILE	A	169	0.626	25.109	12.942	1.00
	14.88	A	C							
5	ATOM	1241	CD1	ILE	A	169	2.021	25.201	12.267	1.00
	16.38	A	C							
	ATOM	1242	CG2	ILE	A	169	0.021	22.988	11.720	1.00
	13.45	A	C							
10	ATOM	1243	C	ILE	A	169	-2.004	24.477	10.137	1.00
	15.22	A	C							
	ATOM	1244	O	ILE	A	169	-3.146	24.470	10.590	1.00
	14.50	A	O							
	ATOM	1245	N	SER	A	170	-1.681	23.857	9.018	1.00
	14.94	A	N							
15	ATOM	1246	CA	SER	A	170	-2.665	23.060	8.310	1.00
	15.41	A	C							
	ATOM	1247	CB	SER	A	170	-2.299	23.004	6.821	1.00
	16.02	A	C							
20	ATOM	1248	OG	SER	A	170	-1.040	22.404	6.585	1.00
	16.03	A	O							
	ATOM	1249	C	SER	A	170	-2.855	21.660	8.904	1.00
	15.05	A	C							
	ATOM	1250	O	SER	A	170	-1.986	21.137	9.616	1.00
	13.80	A	O							
25	ATOM	1251	N	ALA	A	171	-3.992	21.036	8.582	1.00
	14.65	A	N							
	ATOM	1252	CA	ALA	A	171	-4.244	19.651	8.933	1.00
	14.75	A	C							
30	ATOM	1253	CB	ALA	A	171	-5.700	19.507	9.443	1.00
	15.62	A	C							
	ATOM	1254	C	ALA	A	171	-4.043	18.750	7.740	1.00
	15.02	A	C							

	ATOM	1255	O	ALA	A	171	-4.475	19.096	6.652	1.00
	14.12	A	O							
	ATOM	1256	N	PRO	A	172	-3.482	17.548	7.899	1.00
	15.48	A	N							
5	ATOM	1257	CA	PRO	A	172	-3.078	16.913	9.167	1.00
	15.17	A	C							
	ATOM	1258	CB	PRO	A	172	-3.080	15.411	8.796	1.00
	15.90	A	C							
10	ATOM	1259	CG	PRO	A	172	-3.707	15.336	7.456	1.00
	15.73	A	C							
	ATOM	1260	CD	PRO	A	172	-3.401	16.614	6.768	1.00
	15.43	A	C							
	ATOM	1261	C	PRO	A	172	-1.724	17.260	9.788	1.00
	14.85	A	C							
15	ATOM	1262	O	PRO	A	172	-1.284	16.499	10.651	1.00
	16.20	A	O							
	ATOM	1263	N	GLY	A	173	-1.086	18.352	9.382	1.00
	14.01	A	N							
20	ATOM	1264	CA	GLY	A	173	0.078	18.895	10.064	1.00
	13.48	A	C							
	ATOM	1265	C	GLY	A	173	-0.158	19.147	11.553	1.00
	13.91	A	C							
	ATOM	1266	O	GLY	A	173	0.809	19.174	12.339	1.00
	14.08	A	O							
25	ATOM	1267	N	THR	A	174	-1.419	19.291	11.956	1.00
	13.50	A	N							
	ATOM	1268	CA	THR	A	174	-1.758	19.475	13.375	1.00
	13.19	A	C							
30	ATOM	1269	CB	THR	A	174	-3.137	20.125	13.530	1.00
	13.66	A	C							
	ATOM	1270	OG1	THR	A	174	-4.104	19.394	12.743	1.00
	13.16	A	O							

	ATOM	1271	CG2	THR	A	174	-3.114	21.510	12.957	1.00
	14.22	A	C							
	ATOM	1272	C	THR	A	174	-1.774	18.188	14.172	1.00
	12.85	A	C							
5	ATOM	1273	O	THR	A	174	-1.909	18.227	15.390	1.00
	12.08	A	O							
	ATOM	1274	N	ALA	A	175	-1.696	17.040	13.505	1.00
	12.94	A	N							
10	ATOM	1275	CA	ALA	A	175	-1.614	15.772	14.213	1.00
	12.90	A	C							
	ATOM	1276	CB	ALA	A	175	-1.422	14.641	13.211	1.00
	13.54	A	C							
	ATOM	1277	C	ALA	A	175	-0.484	15.740	15.264	1.00
	12.44	A	C							
15	ATOM	1278	O	ALA	A	175	0.601	16.233	15.043	1.00
	13.06	A	O							
	ATOM	1279	N	LYS	A	176	-0.739	15.131	16.398	1.00
	13.08	A	N							
20	ATOM	1280	CA	LYS	A	176	0.269	15.057	17.466	1.00
	13.00	A	C							
	ATOM	1281	CB	LYS	A	176	-0.383	14.511	18.719	1.00
	12.78	A	C							
	ATOM	1282	CG	LYS	A	176	-1.406	15.392	19.366	1.00
	13.87	A	C							
25	ATOM	1283	CD	LYS	A	176	-2.044	14.693	20.553	1.00
	15.77	A	C							
	ATOM	1284	CE	LYS	A	176	-3.179	13.722	20.173	1.00
	16.63	A	C							
30	ATOM	1285	NZ	LYS	A	176	-3.738	13.048	21.388	1.00
	16.58	A	N							
	ATOM	1286	C	LYS	A	176	1.433	14.107	17.115	1.00
	13.10	A	C							

	ATOM	1287	O	LYS	A	176	2.559	14.289	17.538	1.00
	12.98	A	O							
	ATOM	1288	N	ASN	A	177	1.119	13.047	16.390	1.00
	12.81	A	N							
5	ATOM	1289	CA	ASN	A	177	2.047	11.933	16.187	1.00
	12.78	A	C							
	ATOM	1290	CB	ASN	A	177	1.278	10.628	16.301	1.00
	12.48	A	C							
10	ATOM	1291	CG	ASN	A	177	0.733	10.382	17.718	1.00
	12.12	A	C							
	ATOM	1292	OD1	ASN	A	177	1.135	11.043	18.682	1.00
	12.31	A	O							
	ATOM	1293	ND2	ASN	A	177	-0.179	9.416	17.844	1.00
	10.81	A	N							
15	ATOM	1294	C	ASN	A	177	2.822	11.966	14.876	1.00
	12.68	A	C							
	ATOM	1295	O	ASN	A	177	3.692	11.097	14.621	1.00
	13.33	A	O							
20	ATOM	1296	N	ALA	A	178	2.483	12.933	14.029	1.00
	12.80	A	N							
	ATOM	1297	CA	ALA	A	178	3.234	13.208	12.801	1.00
	12.70	A	C							
	ATOM	1298	CB	ALA	A	178	2.382	13.938	11.817	1.00
	12.83	A	C							
25	ATOM	1299	C	ALA	A	178	4.439	14.052	13.141	1.00
	12.18	A	C							
	ATOM	1300	O	ALA	A	178	4.471	14.685	14.188	1.00
	12.29	A	O							
30	ATOM	1301	N	ILE	A	179	5.458	13.985	12.293	1.00
	11.71	A	N							
	ATOM	1302	CA	ILE	A	179	6.531	14.966	12.283	1.00
	11.72	A	C							

	ATOM	1303	CB	ILE	A	179	7.838	14.364	11.812	1.00
	11.54	A	C							
	ATOM	1304	CG1	ILE	A	179	8.251	13.222	12.712	1.00
	13.45	A	C							
5	ATOM	1305	CD1	ILE	A	179	9.472	12.467	12.196	1.00
	14.82	A	C							
	ATOM	1306	CG2	ILE	A	179	8.927	15.437	11.783	1.00
	12.00	A	C							
10	ATOM	1307	C	ILE	A	179	6.085	16.076	11.317	1.00
	11.98	A	C							
	ATOM	1308	O	ILE	A	179	5.943	15.852	10.109	1.00
	11.31	A	O							
	ATOM	1309	N	THR	A	180	5.813	17.248	11.871	1.00
	11.27	A	N							
15	ATOM	1310	CA	THR	A	180	5.357	18.383	11.074	1.00
	11.76	A	C							
	ATOM	1311	CB	THR	A	180	4.260	19.120	11.818	1.00
	11.79	A	C							
20	ATOM	1312	OG1	THR	A	180	3.166	18.214	12.084	1.00
	12.06	A	O							
	ATOM	1313	CG2	THR	A	180	3.603	20.224	10.929	1.00
	12.72	A	C							
	ATOM	1314	C	THR	A	180	6.530	19.306	10.690	1.00
	11.82	A	C							
25	ATOM	1315	O	THR	A	180	7.286	19.762	11.533	1.00
	11.02	A	O							
	ATOM	1316	N	VAL	A	181	6.662	19.590	9.401	1.00
	11.42	A	N							
30	ATOM	1317	CA	VAL	A	181	7.830	20.305	8.899	1.00
	11.43	A	C							
	ATOM	1318	CB	VAL	A	181	8.492	19.464	7.814	1.00
	11.32	A	C							

	ATOM	1319	CG1	VAL	A	181	9.744	20.118	7.309	1.00
	12.42	A	C							
	ATOM	1320	CG2	VAL	A	181	8.757	18.055	8.351	1.00
	12.33	A	C							
5	ATOM	1321	C	VAL	A	181	7.511	21.680	8.302	1.00
	11.62	A	C							
	ATOM	1322	O	VAL	A	181	6.667	21.800	7.399	1.00
	12.16	A	O							
10	ATOM	1323	N	GLY	A	182	8.187	22.704	8.812	1.00
	11.59	A	N							
	ATOM	1324	CA	GLY	A	182	8.095	24.042	8.273	1.00
	12.80	A	C							
	ATOM	1325	C	GLY	A	182	9.296	24.352	7.391	1.00
	13.72	A	C							
15	ATOM	1326	O	GLY	A	182	10.243	23.574	7.344	1.00
	14.13	A	O							
	ATOM	1327	N	ALA	A	183	9.264	25.492	6.700	1.00
	13.43	A	N							
20	ATOM	1328	CA	ALA	A	183	10.312	25.837	5.776	1.00
	14.22	A	C							
	ATOM	1329	CB	ALA	A	183	9.709	26.166	4.401	1.00
	14.53	A	C							
	ATOM	1330	C	ALA	A	183	11.205	27.001	6.238	1.00
	14.32	A	C							
25	ATOM	1331	O	ALA	A	183	10.717	28.110	6.498	1.00
	14.13	A	O							
	ATOM	1332	N	THR	A	184	12.512	26.737	6.293	1.00
	14.17	A	N							
30	ATOM	1333	CA	THR	A	184	13.513	27.799	6.294	1.00
	14.33	A	C							
	ATOM	1334	CB	THR	A	184	14.743	27.451	7.159	1.00
	14.19	A	C							

	ATOM	1335	OG1	THR	A	184	15.180	26.103	6.925	1.00
	13.83	A	O							
	ATOM	1336	CG2	THR	A	184	14.383	27.474	8.636	1.00
	13.70	A	C							
5	ATOM	1337	C	THR	A	184	13.905	28.018	4.841	1.00
	15.47	A	C							
	ATOM	1338	O	THR	A	184	13.380	27.354	3.934	1.00
	15.87	A	O							
10	ATOM	1339	N	GLU	A	185	14.861	28.919	4.618	1.00
	15.13	A	N							
	ATOM	1340	CA	GLU	A	185	15.328	29.246	3.290	1.00
	14.03	A	C							
	ATOM	1341	CB	GLU	A	185	15.696	30.766	3.230	1.00
	13.82	A	C							
15	ATOM	1342	CG	GLU	A	185	14.492	31.673	3.495	1.00
	15.09	A	C							
	ATOM	1343	CD	GLU	A	185	14.785	33.172	3.329	1.00
	14.09	A	C							
20	ATOM	1344	OE1	GLU	A	185	15.911	33.541	2.985	1.00
	15.60	A	O							
	ATOM	1345	OE2	GLU	A	185	13.871	33.984	3.528	1.00
	14.21	A	O							
	ATOM	1346	C	GLU	A	185	16.511	28.376	2.863	1.00
	13.70	A	C							
25	ATOM	1347	O	GLU	A	185	17.387	28.011	3.675	1.00
	14.17	A	O							
	ATOM	1348	N	ASN	A	186	16.521	28.008	1.587	1.00
	12.64	A	N							
30	ATOM	1349	CA	ASN	A	186	17.707	27.452	0.959	1.00
	13.44	A	C							
	ATOM	1350	CB	ASN	A	186	17.345	26.758	-0.353	1.00
	13.84	A	C							

	ATOM	1351	CG	ASN	A	186	18.293	25.630	-0.717	1.00
	14.82	A	C							
	ATOM	1352	OD1	ASN	A	186	19.084	25.169	0.099	1.00
	14.62	A	O							
5	ATOM	1353	ND2	ASN	A	186	18.189	25.156	-1.970	1.00
	15.51	A	N							
	ATOM	1354	C	ASN	A	186	18.652	28.603	0.681	1.00
	13.83	A	C							
10	ATOM	1355	O	ASN	A	186	18.244	29.769	0.711	1.00
	14.50	A	O							
	ATOM	1356	N	LEU	A	187	19.920	28.298	0.470	1.00
	14.83	A	N							
	ATOM	1357	CA	LEU	A	187	20.892	29.352	0.213	1.00
	14.62	A	C							
15	ATOM	1358	CB	LEU	A	187	22.144	29.144	1.018	1.00
	15.48	A	C							
	ATOM	1359	CG	LEU	A	187	23.144	30.319	0.975	1.00
	17.25	A	C							
20	ATOM	1360	CD1	LEU	A	187	22.504	31.587	1.469	1.00
	18.56	A	C							
	ATOM	1361	CD2	LEU	A	187	24.394	29.973	1.816	1.00
	20.46	A	C							
	ATOM	1362	C	LEU	A	187	21.205	29.360	-1.279	1.00
	14.80	A	C							
25	ATOM	1363	O	LEU	A	187	22.106	28.692	-1.734	1.00
	14.07	A	O							
	ATOM	1364	N	ARG	A	188	20.398	30.083	-2.023	1.00
	15.63	A	N							
30	ATOM	1365	CA	ARG	A	188	20.631	30.308	-3.454	1.00
	17.55	A	C							
	ATOM	1366	CB	ARG	A	188	19.658	29.484	-4.273	1.00
	17.02	A	C							

	ATOM	1367	CG	ARG	A	188	19.842	27.989	-4.168	1.00
	17.82	A	C							
	ATOM	1368	CD	ARG	A	188	19.063	27.213	-5.267	1.00
	19.96	A	C							
5	ATOM	1369	NE	ARG	A	188	19.315	25.782	-5.224	1.00
	18.26	A	N							
	ATOM	1370	CZ	ARG	A	188	20.339	25.172	-5.814	1.00
	19.52	A	C							
10	ATOM	1371	NH1	ARG	A	188	21.235	25.846	-6.530	1.00
	17.91	A	N							
	ATOM	1372	NH2	ARG	A	188	20.475	23.867	-5.693	1.00
	19.41	A	N							
	ATOM	1373	C	ARG	A	188	20.387	31.804	-3.694	1.00
	17.89	A	C							
15	ATOM	1374	O	ARG	A	188	19.379	32.189	-4.251	1.00
	18.33	A	O							
	ATOM	1375	N	PRO	A	189	21.273	32.646	-3.181	1.00
	19.58	A	N							
20	ATOM	1376	CA	PRO	A	189	20.990	34.082	-3.061	1.00
	20.68	A	C							
	ATOM	1377	CB	PRO	A	189	22.179	34.613	-2.239	1.00
	21.07	A	C							
	ATOM	1378	CG	PRO	A	189	23.271	33.608	-2.417	1.00
	21.15	A	C							
25	ATOM	1379	CD	PRO	A	189	22.599	32.288	-2.657	1.00
	20.12	A	C							
	ATOM	1380	C	PRO	A	189	20.833	34.863	-4.373	1.00
	21.39	A	C							
30	ATOM	1381	O	PRO	A	189	20.276	35.975	-4.347	1.00
	20.51	A	O							
	ATOM	1382	N	SER	A	190	21.285	34.307	-5.492	1.00
	22.89	A	N							

	ATOM	1383	CA	SER	A	190	21.033	34.940	-6.796	1.00
	24.65	A	C							
	ATOM	1384	CB	SER	A	190	21.685	34.135	-7.932	1.00
	24.76	A	C							
5	ATOM	1385	OG	SER	A	190	21.082	32.831	-8.046	1.00
	25.85	A	O							
	ATOM	1386	C	SER	A	190	19.525	35.098	-7.028	1.00
	25.23	A	C							
10	ATOM	1387	O	SER	A	190	19.080	35.918	-7.850	1.00
	26.47	A	O							
	ATOM	1388	N	PHE	A	191	18.723	34.365	-6.258	1.00
	25.36	A	N							
	ATOM	1389	CA	PHE	A	191	17.264	34.446	-6.389	1.00
	25.28	A	C							
15	ATOM	1390	CB	PHE	A	191	16.643	33.046	-6.156	1.00
	25.00	A	C							
	ATOM	1391	CG	PHE	A	191	16.841	32.089	-7.310	1.00
	23.34	A	C							
20	ATOM	1392	CD1	PHE	A	191	17.565	30.932	-7.159	1.00
	21.81	A	C							
	ATOM	1393	CE1	PHE	A	191	17.735	30.052	-8.218	1.00
	22.63	A	C							
	ATOM	1394	CZ	PHE	A	191	17.180	30.341	-9.470	1.00
	21.46	A	C							
25	ATOM	1395	CE2	PHE	A	191	16.449	31.484	-9.631	1.00
	22.61	A	C							
	ATOM	1396	CD2	PHE	A	191	16.288	32.361	-8.562	1.00
	25.47	A	C							
30	ATOM	1397	C	PHE	A	191	16.388	35.561	-5.720	1.00
	25.71	A	C							
	ATOM	1398	O	PHE	A	191	15.184	35.500	-5.877	1.00
	27.33	A	O							

	ATOM	1399	N	GLY	A	192	16.823	36.552	-4.944	1.00
	26.98	A	N							
	ATOM	1400	CA	GLY	A	192	17.639	36.484	-3.783	1.00
	26.29	A	C							
5	ATOM	1401	C	GLY	A	192	16.795	36.445	-2.478	1.00
	25.37	A	C							
	ATOM	1402	O	GLY	A	192	17.008	35.528	-1.733	1.00
	25.24	A	O							
10	ATOM	1403	N	SER	A	193	15.858	37.355	-2.179	1.00
	24.49	A	N							
	ATOM	1404	CA	SER	A	193	15.332	37.444	-0.778	1.00
	24.39	A	C							
	ATOM	1405	CB	SER	A	193	14.452	38.689	-0.554	1.00
	24.51	A	C							
15	ATOM	1406	OG	SER	A	193	13.058	38.407	-0.623	1.00
	25.19	A	O							
	ATOM	1407	C	SER	A	193	14.664	36.176	-0.133	1.00
	23.94	A	C							
20	ATOM	1408	O	SER	A	193	14.740	35.973	1.085	1.00
	22.27	A	O							
	ATOM	1409	N	TYR	A	194	14.037	35.331	-0.949	1.00
	23.39	A	N							
	ATOM	1410	CA	TYR	A	194	13.497	34.046	-0.477	1.00
	23.08	A	C							
25	ATOM	1411	CB	TYR	A	194	12.407	33.559	-1.439	1.00
	23.87	A	C							
	ATOM	1412	CG	TYR	A	194	11.044	34.129	-1.144	1.00
	27.80	A	C							
30	ATOM	1413	CD1	TYR	A	194	10.563	35.240	-1.832	1.00
	31.12	A	C							
	ATOM	1414	CE1	TYR	A	194	9.317	35.775	-1.554	1.00
	32.91	A	C							

	ATOM	1415	CZ	TYR	A	194	8.525	35.182	-0.591	1.00
	34.12	A	C							
	ATOM	1416	OH	TYR	A	194	7.282	35.696	-0.311	1.00
	38.22	A	O							
5	ATOM	1417	CE2	TYR	A	194	8.974	34.076	0.108	1.00
	33.28	A	C							
	ATOM	1418	CD2	TYR	A	194	10.229	33.556	-0.169	1.00
	31.26	A	C							
10	ATOM	1419	C	TYR	A	194	14.545	32.930	-0.289	1.00
	21.59	A	C							
	ATOM	1420	O	TYR	A	194	14.225	31.848	0.236	1.00
	20.33	A	O							
	ATOM	1421	N	ALA	A	195	15.785	33.185	-0.695	1.00
	20.44	A	N							
15	ATOM	1422	CA	ALA	A	195	16.838	32.181	-0.610	1.00
	20.47	A	C							
	ATOM	1423	CB	ALA	A	195	16.915	31.365	-1.892	1.00
	20.41	A	C							
20	ATOM	1424	C	ALA	A	195	18.222	32.757	-0.270	1.00
	19.93	A	C							
	ATOM	1425	O	ALA	A	195	19.230	32.354	-0.877	1.00
	19.21	A	O							
	ATOM	1426	N	ASP	A	196	18.264	33.615	0.750	1.00
	19.15	A	N							
25	ATOM	1427	CA	ASP	A	196	19.472	34.355	1.126	1.00
	19.86	A	C							
	ATOM	1428	CB	ASP	A	196	19.264	35.861	0.919	1.00
	20.04	A	C							
30	ATOM	1429	CG	ASP	A	196	18.198	36.453	1.814	1.00
	22.11	A	C							
	ATOM	1430	OD1	ASP	A	196	18.040	37.693	1.696	1.00
	23.87	A	O							

	ATOM	1431	OD2	ASP	A	196	17.461	35.822	2.649	1.00
	19.55	A	O							
	ATOM	1432	C	ASP	A	196	20.025	34.163	2.549	1.00
	19.90	A	C							
5	ATOM	1433	O	ASP	A	196	21.092	34.705	2.869	1.00
	19.61	A	O							
	ATOM	1434	N	ASN	A	197	19.326	33.410	3.394	1.00
	18.85	A	N							
10	ATOM	1435	CA	ASN	A	197	19.790	33.177	4.757	1.00
	18.29	A	C							
	ATOM	1436	CB	ASN	A	197	19.410	34.369	5.644	1.00
	18.68	A	C							
	ATOM	1437	CG	ASN	A	197	20.123	34.360	7.001	1.00
	19.48	A	C							
15	ATOM	1438	OD1	ASN	A	197	20.221	33.319	7.630	1.00
	16.60	A	O							
	ATOM	1439	ND2	ASN	A	197	20.603	35.541	7.455	1.00
	14.55	A	N							
20	ATOM	1440	C	ASN	A	197	19.198	31.861	5.304	1.00
	17.30	A	C							
	ATOM	1441	O	ASN	A	197	17.986	31.734	5.463	1.00
	16.96	A	O							
	ATOM	1442	N	ILE	A	198	20.066	30.901	5.608	1.00
	16.67	A	N							
25	ATOM	1443	CA	ILE	A	198	19.606	29.557	5.993	1.00
	16.04	A	C							
	ATOM	1444	CB	ILE	A	198	20.771	28.571	6.020	1.00
	15.64	A	C							
30	ATOM	1445	CG1	ILE	A	198	21.724	28.885	7.179	1.00
	16.27	A	C							
	ATOM	1446	CD1	ILE	A	198	22.734	27.781	7.490	1.00
	18.08	A	C							

	ATOM	1447	CG2	ILE	A	198	21.459	28.530	4.679	1.00
	16.50	A	C							
	ATOM	1448	C	ILE	A	198	18.897	29.560	7.352	1.00
	15.03	A	C							
5	ATOM	1449	O	ILE	A	198	18.222	28.605	7.723	1.00
	15.12	A	O							
	ATOM	1450	N	ASN	A	199	19.054	30.642	8.102	1.00
	14.78	A	N							
10	ATOM	1451	CA	ASN	A	199	18.316	30.794	9.344	1.00
	14.68	A	C							
	ATOM	1452	CB	ASN	A	199	19.180	31.609	10.332	1.00
	14.98	A	C							
	ATOM	1453	CG	ASN	A	199	20.487	30.948	10.708	1.00
	15.69	A	C							
15	ATOM	1454	OD1	ASN	A	199	20.560	29.757	10.907	1.00
	14.98	A	O							
	ATOM	1455	ND2	ASN	A	199	21.526	31.768	10.903	1.00
	20.04	A	N							
20	ATOM	1456	C	ASN	A	199	17.036	31.597	9.311	1.00
	14.49	A	C							
	ATOM	1457	O	ASN	A	199	16.239	31.490	10.227	1.00
	14.69	A	O							
	ATOM	1458	N	HIS	A	200	16.736	32.328	8.241	1.00
	15.73	A	N							
25	ATOM	1459	CA	HIS	A	200	15.375	32.648	7.854	1.00
	14.99	A	C							
	ATOM	1460	CB	HIS	A	200	15.338	33.612	6.641	1.00
	15.17	A	C							
30	ATOM	1461	CG	HIS	A	200	16.005	34.942	6.871	1.00
	17.24	A	C							
	ATOM	1462	ND1	HIS	A	200	16.242	35.840	5.842	1.00
	16.94	A	N							

	ATOM	1463	CE1	HIS	A	200	16.842	36.916	6.327	1.00
	19.73	A	C							
	ATOM	1464	NE2	HIS	A	200	17.009	36.751	7.628	1.00
	17.79	A	N							
5	ATOM	1465	CD2	HIS	A	200	16.469	35.538	7.999	1.00
	18.37	A	C							
	ATOM	1466	C	HIS	A	200	14.327	31.581	7.730	1.00
	15.01	A	C							
10	ATOM	1467	O	HIS	A	200	14.472	30.673	6.965	1.00
	14.41	A	O							
	ATOM	1468	N	VAL	A	201	13.251	31.772	8.496	1.00
	15.72	A	N							
	ATOM	1469	CA	VAL	A	201	12.004	31.059	8.294	1.00
	16.37	A	C							
15	ATOM	1470	CB	VAL	A	201	11.103	31.185	9.523	1.00
	16.41	A	C							
	ATOM	1471	CG1	VAL	A	201	9.780	30.428	9.297	1.00
	16.12	A	C							
20	ATOM	1472	CG2	VAL	A	201	11.841	30.668	10.783	1.00
	18.01	A	C							
	ATOM	1473	C	VAL	A	201	11.313	31.683	7.089	1.00
	16.94	A	C							
	ATOM	1474	O	VAL	A	201	11.250	32.900	6.973	1.00
	17.09	A	O							
25	ATOM	1475	N	ALA	A	202	10.872	30.865	6.143	1.00
	17.70	A	N							
	ATOM	1476	CA	ALA	A	202	10.233	31.396	4.949	1.00
	17.52	A	C							
30	ATOM	1477	CB	ALA	A	202	9.859	30.265	4.018	1.00
	18.76	A	C							
	ATOM	1478	C	ALA	A	202	9.000	32.169	5.383	1.00
	17.84	A	C							

	ATOM	1479	O	ALA	A	202	8.263	31.734	6.263	1.00
	16.60	A	O							
	ATOM	1480	N	GLN	A	203	8.770	33.332	4.783	1.00
	18.20	A	N							
5	ATOM	1481	CA	GLN	A	203	7.629	34.135	5.192	1.00
	19.45	A	C							
	ATOM	1482	CB	BGLN	A	203	7.542	35.347	4.260	0.40
	19.94	A	C							
10	ATOM	1483	CB	AGLN	A	203	7.529	35.467	4.445	0.60
	20.39	A	C							
	ATOM	1484	CG	BGLN	A	203	7.527	36.681	4.943	0.40
	22.36	A	C							
	ATOM	1485	CG	AGLN	A	203	6.748	36.514	5.261	0.60
	24.58	A	C							
15	ATOM	1486	CD	BGLN	A	203	6.379	37.556	4.452	0.40
	25.52	A	C							
	ATOM	1487	CD	AGLN	A	203	7.553	37.090	6.439	0.60
	28.39	A	C							
20	ATOM	1488	OE1BGLN	A	203	5.568	37.122	3.624	0.40	
	27.97	A	O							
	ATOM	1489	OE1AGLN	A	203	8.525	37.816	6.236	0.60	
	33.69	A	O							
	ATOM	1490	NE2BGLN	A	203	6.299	38.772	4.972	0.40	
	24.61	A	N							
25	ATOM	1491	NE2AGLN	A	203	7.155	36.751	7.655	0.60	
	31.16	A	N							
	ATOM	1492	C	GLN	A	203	6.291	33.391	5.152	1.00
	18.58	A	C							
30	ATOM	1493	O	GLN	A	203	5.458	33.580	6.028	1.00
	18.67	A	O							
	ATOM	1494	N	PHE	A	204	6.090	32.533	4.163	1.00
	17.22	A	N							

	ATOM	1495	CA	PHE	A	204	4.805	31.833	4.027	1.00
	16.75	A	C							
	ATOM	1496	CB	PHE	A	204	4.603	31.335	2.589	1.00
	16.25	A	C							
5	ATOM	1497	CG	PHE	A	204	5.720	30.475	2.093	1.00
	16.52	A	C							
	ATOM	1498	CD1	PHE	A	204	5.857	29.158	2.526	1.00
	16.66	A	C							
10	ATOM	1499	CE1	PHE	A	204	6.893	28.378	2.083	1.00
	17.13	A	C							
	ATOM	1500	CZ	PHE	A	204	7.854	28.909	1.234	1.00
	14.67	A	C							
	ATOM	1501	CE2	PHE	A	204	7.747	30.231	0.816	1.00
	16.10	A	C							
15	ATOM	1502	CD2	PHE	A	204	6.693	31.009	1.267	1.00
	15.39	A	C							
	ATOM	1503	C	PHE	A	204	4.670	30.647	5.018	1.00
	16.21	A	C							
20	ATOM	1504	O	PHE	A	204	3.570	30.150	5.198	1.00
	15.42	A	O							
	ATOM	1505	N	SER	A	205	5.754	30.223	5.688	1.00
	15.36	A	N							
	ATOM	1506	CA	SER	A	205	5.692	28.983	6.508	1.00
	15.18	A	C							
25	ATOM	1507	CB	SER	A	205	7.068	28.579	7.063	1.00
	15.27	A	C							
	ATOM	1508	OG	SER	A	205	7.042	27.254	7.585	1.00
	15.10	A	O							
30	ATOM	1509	C	SER	A	205	4.657	29.103	7.615	1.00
	14.84	A	C							
	ATOM	1510	O	SER	A	205	4.618	30.092	8.319	1.00
	16.26	A	O							

	ATOM	1511	N	SER	A	206	3.764	28.141	7.753	1.00
	15.82	A	N							
	ATOM	1512	CA	SER	A	206	2.751	28.237	8.818	1.00
	15.73	A	C							
5	ATOM	1513	CB	SER	A	206	1.714	27.117	8.735	1.00
	16.10	A	C							
	ATOM	1514	OG	SER	A	206	0.811	27.350	7.655	1.00
	14.83	A	O							
10	ATOM	1515	C	SER	A	206	3.421	28.221	10.186	1.00
	15.92	A	C							
	ATOM	1516	O	SER	A	206	4.486	27.589	10.362	1.00
	15.30	A	O							
	ATOM	1517	N	ARG	A	207	2.786	28.928	11.113	1.00
	15.72	A	N							
15	ATOM	1518	CA	ARG	A	207	3.289	29.140	12.455	1.00
	16.34	A	C							
	ATOM	1519	CB	ARG	A	207	3.511	30.636	12.715	1.00
	16.50	A	C							
20	ATOM	1520	CG	ARG	A	207	4.189	31.375	11.542	1.00
	18.52	A	C							
	ATOM	1521	CD	ARG	A	207	5.604	30.916	11.227	1.00
	20.29	A	C							
	ATOM	1522	NE	ARG	A	207	6.146	31.519	10.012	1.00
	22.13	A	N							
25	ATOM	1523	CZ	ARG	A	207	6.821	32.643	9.981	1.00
	22.20	A	C							
	ATOM	1524	NH1	ARG	A	207	7.056	33.294	11.080	1.00
	25.41	A	N							
30	ATOM	1525	NH2	ARG	A	207	7.256	33.124	8.838	1.00
	24.08	A	N							
	ATOM	1526	C	ARG	A	207	2.330	28.556	13.471	1.00
	15.97	A	C							

	ATOM	1527	O	ARG	A	207	1.096	28.605	13.301	1.00
	15.01	A	O							
	ATOM	1528	N	GLY	A	208	2.903	27.974	14.521	1.00
	15.16	A	N							
5	ATOM	1529	CA	GLY	A	208	2.139	27.523	15.655	1.00
	16.14	A	C							
	ATOM	1530	C	GLY	A	208	1.622	28.688	16.476	1.00
	16.50	A	C							
10	ATOM	1531	O	GLY	A	208	1.753	29.830	16.059	1.00
	17.36	A	O							
	ATOM	1532	N	PRO	A	209	0.999	28.423	17.617	1.00
	17.42	A	N							
	ATOM	1533	CA	PRO	A	209	0.727	27.067	18.089	1.00
	17.56	A	C							
15	ATOM	1534	CB	PRO	A	209	0.407	27.269	19.579	1.00
	17.58	A	C							
	ATOM	1535	CG	PRO	A	209	-0.088	28.644	19.701	1.00
	18.85	A	C							
20	ATOM	1536	CD	PRO	A	209	0.477	29.457	18.545	1.00
	17.85	A	C							
	ATOM	1537	C	PRO	A	209	-0.483	26.483	17.368	1.00
	17.50	A	C							
	ATOM	1538	O	PRO	A	209	-1.094	27.157	16.558	1.00
	18.18	A	O							
25	ATOM	1539	N	THR	A	210	-0.816	25.240	17.652	1.00
	16.70	A	N							
	ATOM	1540	CA	THR	A	210	-2.050	24.690	17.186	1.00
	17.34	A	C							
30	ATOM	1541	CB	THR	A	210	-2.042	23.181	17.356	1.00
	16.73	A	C							
	ATOM	1542	OG1	THR	A	210	-1.848	22.859	18.734	1.00
	18.34	A	O							

	ATOM	1543	CG2	THR	A	210	-0.833	22.540	16.574	1.00
	16.90	A	C							
	ATOM	1544	C	THR	A	210	-3.206	25.327	17.987	1.00
	17.55	A	C							
5	ATOM	1545	O	THR	A	210	-2.990	26.095	18.930	1.00
	16.40	A	O							
	ATOM	1546	N	ARG	A	211	-4.421	24.979	17.623	1.00
	18.89	A	N							
10	ATOM	1547	CA	ARG	A	211	-5.595	25.577	18.264	1.00
	20.56	A	C							
	ATOM	1548	CB	ARG	A	211	-6.884	25.056	17.638	1.00
	21.16	A	C							
	ATOM	1549	CG	ARG	A	211	-8.149	25.719	18.255	1.00
	25.92	A	C							
15	ATOM	1550	CD	ARG	A	211	-9.325	25.804	17.301	1.00
	31.08	A	C							
	ATOM	1551	NE	ARG	A	211	-8.956	26.457	16.042	1.00
	35.63	A	N							
20	ATOM	1552	CZ	ARG	A	211	-9.626	26.296	14.905	1.00
	38.91	A	C							
	ATOM	1553	NH1	ARG	A	211	-10.707	25.516	14.876	1.00
	40.64	A	N							
	ATOM	1554	NH2	ARG	A	211	-9.225	26.911	13.795	1.00
	37.74	A	N							
25	ATOM	1555	C	ARG	A	211	-5.591	25.308	19.768	1.00
	20.16	A	C							
	ATOM	1556	O	ARG	A	211	-5.983	26.180	20.539	1.00
	19.93	A	O							
30	ATOM	1557	N	ASP	A	212	-5.120	24.121	20.185	1.00
	19.40	A	N							
	ATOM	1558	CA	ASP	A	212	-5.031	23.791	21.616	1.00
	18.64	A	C							

	ATOM	1559	CB	ASP	A	212	-5.346	22.306	21.877	1.00
	18.58	A	C							
	ATOM	1560	CG	ASP	A	212	-4.318	21.356	21.254	1.00
	16.59	A	C							
5	ATOM	1561	OD1	ASP	A	212	-4.255	20.180	21.679	1.00
	16.40	A	O							
	ATOM	1562	OD2	ASP	A	212	-3.545	21.688	20.339	1.00
	17.56	A	O							
10	ATOM	1563	C	ASP	A	212	-3.693	24.160	22.255	1.00
	18.83	A	C							
	ATOM	1564	O	ASP	A	212	-3.387	23.707	23.370	1.00
	19.22	A	O							
	ATOM	1565	N	GLY	A	213	-2.902	24.966	21.556	1.00
	18.29	A	N							
15	ATOM	1566	CA	GLY	A	213	-1.698	25.572	22.111	1.00
	18.10	A	C							
	ATOM	1567	C	GLY	A	213	-0.439	24.713	22.065	1.00
	17.75	A	C							
20	ATOM	1568	O	GLY	A	213	0.517	24.998	22.785	1.00
	18.06	A	O							
	ATOM	1569	N	ARG	A	214	-0.431	23.665	21.242	1.00
	16.43	A	N							
	ATOM	1570	CA	ARG	A	214	0.757	22.826	21.110	1.00
	16.72	A	C							
25	ATOM	1571	CB	ARG	A	214	0.403	21.461	20.536	1.00
	16.17	A	C							
	ATOM	1572	CG	ARG	A	214	-0.276	20.553	21.473	1.00
	16.40	A	C							
30	ATOM	1573	CD	ARG	A	214	-0.753	19.301	20.814	1.00
	16.61	A	C							
	ATOM	1574	NE	ARG	A	214	-1.771	19.613	19.826	1.00
	16.67	A	N							

	ATOM	1575	CZ	ARG	A	214	-1.740	19.297	18.531	1.00
	16.71	A	C							
	ATOM	1576	NH1	ARG	A	214	-0.720	18.628	17.981	1.00
	16.55	A	N							
5	ATOM	1577	NH2	ARG	A	214	-2.762	19.664	17.776	1.00
	14.42	A	N							
	ATOM	1578	C	ARG	A	214	1.772	23.493	20.203	1.00
	16.16	A	C							
10	ATOM	1579	O	ARG	A	214	1.403	24.306	19.344	1.00
	16.86	A	O							
	ATOM	1580	N	ILE	A	215	3.046	23.168	20.396	1.00
	15.82	A	N							
	ATOM	1581	CA	ILE	A	215	4.107	23.640	19.516	1.00
	15.40	A	C							
15	ATOM	1582	CB	ILE	A	215	5.503	23.498	20.175	1.00
	16.18	A	C							
	ATOM	1583	CG1	ILE	A	215	5.600	24.351	21.454	1.00
	17.35	A	C							
20	ATOM	1584	CD1	ILE	A	215	5.526	25.842	21.181	1.00
	20.01	A	C							
	ATOM	1585	CG2	ILE	A	215	6.606	23.898	19.191	1.00
	15.87	A	C							
	ATOM	1586	C	ILE	A	215	4.100	22.834	18.214	1.00
	15.40	A	C							
25	ATOM	1587	O	ILE	A	215	4.316	21.616	18.227	1.00
	14.96	A	O							
	ATOM	1588	N	LYS	A	216	3.841	23.536	17.117	1.00
	14.61	A	N							
30	ATOM	1589	CA	LYS	A	216	4.072	23.062	15.745	1.00
	14.64	A	C							
	ATOM	1590	CB	LYS	A	216	2.765	22.616	15.067	1.00
	13.98	A	C							

	ATOM	1591	CG	LYS	A	216	2.190	21.271	15.526	1.00
	13.46	A	C							
	ATOM	1592	CD	LYS	A	216	3.073	20.102	15.117	1.00
	14.36	A	C							
5	ATOM	1593	CE	LYS	A	216	2.427	18.754	15.453	1.00
	13.24	A	C							
	ATOM	1594	NZ	LYS	A	216	3.042	17.577	14.739	1.00
	8.08	A	N							
10	ATOM	1595	C	LYS	A	216	4.632	24.269	14.984	1.00
	14.70	A	C							
	ATOM	1596	O	LYS	A	216	4.336	25.428	15.358	1.00
	13.92	A	O							
	ATOM	1597	N	PRO	A	217	5.410	24.032	13.921	1.00
	14.59	A	N							
15	ATOM	1598	CA	PRO	A	217	5.788	22.691	13.463	1.00
	13.65	A	C							
	ATOM	1599	CB	PRO	A	217	6.452	22.944	12.115	1.00
	14.58	A	C							
20	ATOM	1600	CG	PRO	A	217	6.934	24.356	12.178	1.00
	15.23	A	C							
	ATOM	1601	CD	PRO	A	217	6.012	25.077	13.086	1.00
	14.44	A	C							
	ATOM	1602	C	PRO	A	217	6.818	22.089	14.401	1.00
	12.99	A	C							
25	ATOM	1603	O	PRO	A	217	7.262	22.738	15.379	1.00
	12.11	A	O							
	ATOM	1604	N	ASP	A	218	7.201	20.847	14.126	1.00
	11.74	A	N							
30	ATOM	1605	CA	ASP	A	218	8.188	20.214	14.974	1.00
	11.35	A	C							
	ATOM	1606	CB	ASP	A	218	8.033	18.694	14.962	1.00
	11.47	A	C							

	ATOM	1607	CG	ASP	A	218	6.672	18.241	15.451	1.00
	11.82	A	C							
	ATOM	1608	OD1	ASP	A	218	6.440	18.370	16.680	1.00
	10.57	A	O							
5	ATOM	1609	OD2	ASP	A	218	5.810	17.726	14.671	1.00
	11.50	A	O							
	ATOM	1610	C	ASP	A	218	9.619	20.566	14.610	1.00
	11.30	A	C							
10	ATOM	1611	O	ASP	A	218	10.441	20.772	15.501	1.00
	10.85	A	O							
	ATOM	1612	N	VAL	A	219	9.928	20.516	13.314	1.00
	11.61	A	N							
	ATOM	1613	CA	VAL	A	219	11.254	20.829	12.815	1.00
	12.37	A	C							
15	ATOM	1614	CB	VAL	A	219	12.118	19.589	12.602	1.00
	12.19	A	C							
	ATOM	1615	CG1	VAL	A	219	12.401	18.867	13.933	1.00
	14.24	A	C							
20	ATOM	1616	CG2	VAL	A	219	11.485	18.660	11.587	1.00
	13.54	A	C							
	ATOM	1617	C	VAL	A	219	11.148	21.568	11.471	1.00
	12.33	A	C							
	ATOM	1618	O	VAL	A	219	10.083	21.624	10.851	1.00
	12.34	A	O							
25	ATOM	1619	N	MET	A	220	12.266	22.139	11.057	1.00
	11.78	A	N							
	ATOM	1620	CA	MET	A	220	12.365	22.930	9.852	1.00
	11.89	A	C							
30	ATOM	1621	CB	MET	A	220	12.798	24.371	10.167	1.00
	11.30	A	C							
	ATOM	1622	CG	MET	A	220	12.025	25.058	11.255	1.00
	11.64	A	C							

	ATOM	1623	SD	MET	A	220	10.310	25.322	10.860	1.00
	12.02	A	S							
	ATOM	1624	CE	MET	A	220	10.416	26.727	9.791	1.00
	11.35	A	C							
5	ATOM	1625	C	MET	A	220	13.398	22.343	8.902	1.00
	12.21	A	C							
	ATOM	1626	O	MET	A	220	14.368	21.731	9.321	1.00
	12.24	A	O							
10	ATOM	1627	N	ALA	A	221	13.175	22.556	7.613	1.00
	12.60	A	N							
	ATOM	1628	CA	ALA	A	221	14.198	22.324	6.605	1.00
	12.90	A	C							
	ATOM	1629	CB	ALA	A	221	14.098	20.912	6.081	1.00
	12.23	A	C							
15	ATOM	1630	C	ALA	A	221	14.064	23.341	5.464	1.00
	13.77	A	C							
	ATOM	1631	O	ALA	A	221	13.029	24.027	5.312	1.00
	14.46	A	O							
20	ATOM	1632	N	PRO	A	222	15.116	23.487	4.687	1.00
	13.99	A	N							
	ATOM	1633	CA	PRO	A	222	15.059	24.393	3.543	1.00
	14.73	A	C							
	ATOM	1634	CB	PRO	A	222	16.387	24.159	2.845	1.00
	13.69	A	C							
25	ATOM	1635	CG	PRO	A	222	17.290	23.676	3.892	1.00
	15.06	A	C							
	ATOM	1636	CD	PRO	A	222	16.433	22.855	4.830	1.00
	14.39	A	C							
30	ATOM	1637	C	PRO	A	222	13.896	24.044	2.622	1.00
	14.82	A	C							
	ATOM	1638	O	PRO	A	222	13.719	22.847	2.284	1.00
	15.21	A	O							

	ATOM	1639	N	GLY	A	223	13.178	25.069	2.193	1.00
	14.57	A	N							
	ATOM	1640	CA	GLY	A	223	11.996	24.910	1.373	1.00
	15.06	A	C							
5	ATOM	1641	C	GLY	A	223	11.779	26.046	0.383	1.00
	14.81	A	C							
	ATOM	1642	O	GLY	A	223	10.661	26.268	-0.039	1.00
	15.67	A	O							
10	ATOM	1643	N	THR	A	224	12.822	26.799	0.049	1.00
	13.98	A	N							
	ATOM	1644	CA	THR	A	224	12.706	27.772	-1.007	1.00
	14.01	A	C							
	ATOM	1645	CB	THR	A	224	12.912	29.229	-0.517	1.00
	13.98	A	C							
15	ATOM	1646	OG1	THR	A	224	14.220	29.350	0.047	1.00
	13.39	A	O							
	ATOM	1647	CG2	THR	A	224	11.952	29.585	0.597	1.00
	14.59	A	C							
20	ATOM	1648	C	THR	A	224	13.729	27.449	-2.072	1.00
	14.02	A	C							
	ATOM	1649	O	THR	A	224	14.813	26.932	-1.791	1.00
	14.13	A	O							
	ATOM	1650	N	TYR	A	225	13.389	27.786	-3.308	1.00
	14.73	A	N							
25	ATOM	1651	CA	TYR	A	225	14.270	27.528	-4.441	1.00
	14.78	A	C							
	ATOM	1652	CB	TYR	A	225	15.197	28.726	-4.686	1.00
	15.26	A	C							
30	ATOM	1653	CG	TYR	A	225	14.502	29.848	-5.398	1.00
	15.90	A	C							
	ATOM	1654	CD1	TYR	A	225	14.027	30.940	-4.692	1.00
	18.12	A	C							

	ATOM	1655	CE1	TYR	A	225	13.349	31.960	-5.301	1.00
	18.57	A	C							
	ATOM	1656	CZ	TYR	A	225	13.100	31.918	-6.659	1.00
	19.46	A	C							
5	ATOM	1657	OH	TYR	A	225	12.391	32.974	-7.207	1.00
	20.70	A	O							
	ATOM	1658	CE2	TYR	A	225	13.510	30.844	-7.404	1.00
	18.30	A	C							
10	ATOM	1659	CD2	TYR	A	225	14.225	29.788	-6.771	1.00
	19.15	A	C							
	ATOM	1660	C	TYR	A	225	15.022	26.196	-4.331	1.00
	14.79	A	C							
	ATOM	1661	O	TYR	A	225	16.252	26.119	-4.395	1.00
	15.52	A	O							
15	ATOM	1662	N	ILE	A	226	14.248	25.130	-4.186	1.00
	15.07	A	N							
	ATOM	1663	CA	ILE	A	226	14.773	23.759	-4.155	1.00
	14.45	A	C							
20	ATOM	1664	CB	ILE	A	226	13.904	22.866	-3.254	1.00
	14.35	A	C							
	ATOM	1665	CG1	ILE	A	226	13.906	23.341	-1.789	1.00
	15.47	A	C							
	ATOM	1666	CD1	ILE	A	226	15.239	23.250	-1.085	1.00
	16.51	A	C							
25	ATOM	1667	CG2	ILE	A	226	14.312	21.400	-3.377	1.00
	14.04	A	C							
	ATOM	1668	C	ILE	A	226	14.780	23.205	-5.580	1.00
	14.24	A	C							
30	ATOM	1669	O	ILE	A	226	13.778	23.188	-6.245	1.00
	13.78	A	O							
	ATOM	1670	N	LEU	A	227	15.937	22.753	-6.022	1.00
	14.94	A	N							

	ATOM	1671	CA	LEU	A	227	16.141	22.230	-7.359	1.00
	14.97	A	C							
	ATOM	1672	CB	LEU	A	227	17.541	22.653	-7.827	1.00
	15.61	A	C							
5	ATOM	1673	CG	LEU	A	227	17.950	22.137	-9.196	1.00
	16.60	A	C							
	ATOM	1674	CD1	LEU	A	227	16.899	22.508	-10.231	1.00
	16.90	A	C							
10	ATOM	1675	CD2	LEU	A	227	19.340	22.669	-9.559	1.00
	18.98	A	C							
	ATOM	1676	C	LEU	A	227	16.010	20.708	-7.284	1.00
	14.76	A	C							
	ATOM	1677	O	LEU	A	227	16.803	20.038	-6.602	1.00
	15.34	A	O							
15	ATOM	1678	N	SER	A	228	14.970	20.179	-7.924	1.00
	14.03	A	N							
	ATOM	1679	CA	SER	A	228	14.665	18.752	-7.871	1.00
	14.07	A	C							
20	ATOM	1680	CB	SER	A	228	13.701	18.448	-6.701	1.00
	13.81	A	C							
	ATOM	1681	OG	SER	A	228	13.631	17.038	-6.453	1.00
	12.38	A	O							
	ATOM	1682	C	SER	A	228	14.061	18.319	-9.208	1.00
	14.98	A	C							
25	ATOM	1683	O	SER	A	228	13.971	19.115	-10.133	1.00
	15.43	A	O							
	ATOM	1684	N	ALA	A	229	13.626	17.067	-9.278	1.00
	14.57	A	N							
30	ATOM	1685	CA	ALA	A	229	13.155	16.454	-10.516	1.00
	14.87	A	C							
	ATOM	1686	CB	ALA	A	229	12.824	14.945	-10.268	1.00
	14.78	A	C							

	ATOM	1687	C	ALA	A	229	11.939	17.135	-11.086	1.00
	14.83	A	C							
	ATOM	1688	O	ALA	A	229	10.939	17.411	-10.376	1.00
	14.22	A	O							
5	ATOM	1689	N	ARG	A	230	12.027	17.381	-12.394	1.00
	14.42	A	N							
	ATOM	1690	CA	ARG	A	230	10.974	18.013	-13.155	1.00
	14.49	A	C							
10	ATOM	1691	CB	ARG	A	230	11.553	19.008	-14.137	1.00
	14.60	A	C							
	ATOM	1692	CG	ARG	A	230	10.516	19.626	-15.065	1.00
	16.55	A	C							
	ATOM	1693	CD	ARG	A	230	11.044	20.792	-15.934	1.00
	19.98	A	C							
15	ATOM	1694	NE	ARG	A	230	9.940	21.308	-16.751	1.00
	19.63	A	N							
	ATOM	1695	CZ	ARG	A	230	9.692	22.581	-16.995	1.00
	21.34	A	C							
20	ATOM	1696	NH1	ARG	A	230	10.502	23.547	-16.545	1.00
	21.55	A	N							
	ATOM	1697	NH2	ARG	A	230	8.617	22.898	-17.730	1.00
	20.71	A	N							
	ATOM	1698	C	ARG	A	230	10.232	16.947	-13.948	1.00
	14.81	A	C							
25	ATOM	1699	O	ARG	A	230	10.838	16.237	-14.762	1.00
	14.40	A	O							
	ATOM	1700	N	SER	A	231	8.931	16.837	-13.703	1.00
	14.68	A	N							
30	ATOM	1701	CA	SER	A	231	8.106	15.937	-14.463	1.00
	15.32	A	C							
	ATOM	1702	CB	SER	A	231	6.660	16.034	-14.030	1.00
	15.75	A	C							

	ATOM	1703	OG	SER A 231	5.836	15.317	-14.947	1.00
	16.08	A	O					
	ATOM	1704	C	SER A 231	8.176	16.325	-15.956	1.00
	15.44	A	C					
5	ATOM	1705	O	SER A 231	8.087	17.494	-16.306	1.00
	13.31	A	O					
	ATOM	1706	N	SER A 232	8.295	15.321	-16.802	1.00
	15.69	A	N					
	ATOM	1707	CA	SER A 232	8.323	15.494	-18.255	1.00
10	16.52	A	C					
	ATOM	1708	CB	SER A 232	8.682	14.156	-18.906	1.00
	16.29	A	C					
	ATOM	1709	OG	SER A 232	7.610	13.191	-18.730	1.00
	16.72	A	O					
15	ATOM	1710	C	SER A 232	7.004	16.050	-18.820	1.00
	18.10	A	C					
	ATOM	1711	O	SER A 232	6.970	16.540	-19.945	1.00
	18.08	A	O					
	ATOM	1712	N	LEU A 233	5.924	16.005	-18.040	1.00
20	18.99	A	N					
	ATOM	1713	CA	LEU A 233	4.647	16.550	-18.466	1.00
	19.87	A	C					
	ATOM	1714	CB	LEU A 233	3.503	15.655	-17.989	1.00
	20.52	A	C					
25	ATOM	1715	CG	LEU A 233	3.579	14.202	-18.428	1.00
	22.45	A	C					
	ATOM	1716	CD1	LEU A 233	2.344	13.472	-17.943	1.00
	25.84	A	C					
	ATOM	1717	CD2	LEU A 233	3.683	14.146	-19.948	1.00
30	26.24	A	C					
	ATOM	1718	C	LEU A 233	4.357	17.956	-17.940	1.00
	20.22	A	C					

	ATOM	1719	O	LEU	A	233	3.365	18.546	-18.345	1.00
	20.30	A	O							
	ATOM	1720	N	ALA	A	234	5.164	18.485	-17.016	1.00
	18.84	A	N							
5	ATOM	1721	CA	ALA	A	234	4.768	19.731	-16.365	1.00
	19.34	A	C							
	ATOM	1722	CB	ALA	A	234	5.297	19.781	-14.958	1.00
	18.58	A	C							
10	ATOM	1723	C	ALA	A	234	5.197	20.991	-17.153	1.00
	19.93	A	C							
	ATOM	1724	O	ALA	A	234	6.300	21.037	-17.701	1.00
	20.41	A	O							
	ATOM	1725	N	PRO	A	235	4.325	21.989	-17.197	1.00
	20.75	A	N							
15	ATOM	1726	CA	PRO	A	235	4.642	23.288	-17.802	1.00
	21.88	A	C							
	ATOM	1727	CB	PRO	A	235	3.271	23.921	-17.981	1.00
	21.83	A	C							
20	ATOM	1728	CG	PRO	A	235	2.429	23.326	-16.902	1.00
	21.93	A	C							
	ATOM	1729	CD	PRO	A	235	2.947	21.944	-16.677	1.00
	21.22	A	C							
	ATOM	1730	C	PRO	A	235	5.495	24.199	-16.885	1.00
	22.70	A	C							
25	ATOM	1731	O	PRO	A	235	5.513	23.970	-15.671	1.00
	21.06	A	O							
	ATOM	1732	N	ASP	A	236	6.150	25.204	-17.489	1.00
	24.00	A	N							
30	ATOM	1733	CA	ASP	A	236	6.960	26.228	-16.795	1.00
	24.41	A	C							
	ATOM	1734	CB	ASP	A	236	7.455	27.332	-17.750	1.00
	24.21	A	C							

	ATOM	1735	CG	ASP	A	236	8.603	26.838	-18.636	1.00
	25.42	A	C							
	ATOM	1736	OD1	ASP	A	236	9.214	27.656	-19.365	1.00
	25.18	A	O							
5	ATOM	1737	OD2	ASP	A	236	8.990	25.634	-18.674	1.00
	23.87	A	O							
	ATOM	1738	C	ASP	A	236	6.263	26.644	-15.520	1.00
	24.33	A	C							
10	ATOM	1739	O	ASP	A	236	6.919	27.035	-14.558	1.00
	24.16	A	O							
	ATOM	1740	N	SER	A	237	4.933	26.677	-15.491	1.00
	25.32	A	N							
	ATOM	1741	CA	SER	A	237	4.179	27.723	-14.873	1.00
	24.89	A	C							
15	ATOM	1742	CB	SER	A	237	2.801	27.926	-15.490	1.00
	25.98	A	C							
	ATOM	1743	OG	SER	A	237	2.035	26.723	-15.436	1.00
	27.95	A	O							
20	ATOM	1744	C	SER	A	237	4.027	26.960	-13.487	1.00
	24.14	A	C							
	ATOM	1745	O	SER	A	237	3.588	27.516	-12.495	1.00
	23.01	A	O							
	ATOM	1746	N	SER	A	238	4.363	25.660	-13.448	1.00
	22.59	A	N							
25	ATOM	1747	CA	SER	A	238	4.313	24.861	-12.201	1.00
	22.41	A	C							
	ATOM	1748	CB	SER	A	238	4.238	23.344	-12.501	1.00
	22.11	A	C							
30	ATOM	1749	OG	SER	A	238	3.046	22.968	-13.146	1.00
	22.38	A	O							
	ATOM	1750	C	SER	A	238	5.543	25.045	-11.295	1.00
	21.86	A	C							

	ATOM	1751	O	SER	A	238	5.550	24.542	-10.184	1.00
	22.29	A	O							
	ATOM	1752	N	PHE	A	239	6.568	25.744	-11.789	1.00
	21.32	A	N							
5	ATOM	1753	CA	PHE	A	239	7.847	25.899	-11.108	1.00
	20.67	A	C							
	ATOM	1754	CB	PHE	A	239	8.966	25.299	-11.966	1.00
	20.17	A	C							
10	ATOM	1755	CG	PHE	A	239	8.736	23.854	-12.294	1.00
	20.18	A	C							
	ATOM	1756	CD1	PHE	A	239	8.964	22.881	-11.344	1.00
	18.34	A	C							
	ATOM	1757	CE1	PHE	A	239	8.686	21.573	-11.600	1.00
	15.67	A	C							
15	ATOM	1758	CZ	PHE	A	239	8.194	21.184	-12.814	1.00
	16.81	A	C							
	ATOM	1759	CE2	PHE	A	239	7.924	22.128	-13.775	1.00
	16.81	A	C							
20	ATOM	1760	CD2	PHE	A	239	8.194	23.466	-13.520	1.00
	18.63	A	C							
	ATOM	1761	C	PHE	A	239	8.124	27.370	-10.775	1.00
	20.81	A	C							
	ATOM	1762	O	PHE	A	239	7.589	28.283	-11.404	1.00
	19.94	A	O							
25	ATOM	1763	N	TRP	A	240	8.927	27.575	-9.743	1.00
	20.46	A	N							
	ATOM	1764	CA	TRP	A	240	9.420	28.913	-9.382	1.00
	21.13	A	C							
30	ATOM	1765	CB	TRP	A	240	10.192	28.842	-8.055	1.00
	21.05	A	C							
	ATOM	1766	CG	TRP	A	240	9.324	28.850	-6.857	1.00
	22.76	A	C							

	ATOM	1767	CD1	TRP	A	240	8.027	28.446	-6.782	1.00
	23.97	A	C							
	ATOM	1768	NE1	TRP	A	240	7.548	28.624	-5.509	1.00
	24.62	A	N							
5	ATOM	1769	CE2	TRP	A	240	8.547	29.148	-4.726	1.00
	24.31	A	C							
	ATOM	1770	CD2	TRP	A	240	9.677	29.302	-5.537	1.00
	23.24	A	C							
10	ATOM	1771	CE3	TRP	A	240	10.839	29.811	-4.966	1.00
	24.95	A	C							
	ATOM	1772	CZ3	TRP	A	240	10.833	30.146	-3.637	1.00
	24.14	A	C							
	ATOM	1773	CH2	TRP	A	240	9.682	29.991	-2.857	1.00
	23.89	A	C							
15	ATOM	1774	CZ2	TRP	A	240	8.542	29.483	-3.378	1.00
	25.05	A	C							
	ATOM	1775	C	TRP	A	240	10.355	29.466	-10.461	1.00
	20.95	A	C							
20	ATOM	1776	O	TRP	A	240	10.419	30.673	-10.703	1.00
	20.42	A	O							
	ATOM	1777	N	ALA	A	241	11.097	28.566	-11.080	1.00
	21.11	A	N							
	ATOM	1778	CA	ALA	A	241	12.022	28.907	-12.149	1.00
	21.52	A	C							
25	ATOM	1779	CB	ALA	A	241	13.243	29.629	-11.606	1.00
	21.93	A	C							
	ATOM	1780	C	ALA	A	241	12.466	27.641	-12.801	1.00
	21.79	A	C							
30	ATOM	1781	O	ALA	A	241	12.440	26.569	-12.169	1.00
	22.05	A	O							
	ATOM	1782	N	ASN	A	242	12.929	27.769	-14.040	1.00
	22.09	A	N							

	ATOM	1783	CA	ASN	A	242	13.481	26.656	-14.800	1.00
	22.74	A	C							
	ATOM	1784	CB	ASN	A	242	13.397	26.962	-16.322	1.00
	22.69	A	C							
5	ATOM	1785	CG	ASN	A	242	11.960	27.071	-16.828	1.00
	22.96	A	C							
	ATOM	1786	OD1	ASN	A	242	11.024	26.578	-16.198	1.00
	21.33	A	O							
10	ATOM	1787	ND2	ASN	A	242	11.782	27.727	-17.969	1.00
	21.31	A	N							
	ATOM	1788	C	ASN	A	242	14.927	26.359	-14.458	1.00
	23.18	A	C							
	ATOM	1789	O	ASN	A	242	15.634	27.194	-13.902	1.00
	23.35	A	O							
15	ATOM	1790	N	HIS	A	243	15.375	25.169	-14.820	1.00
	24.21	A	N							
	ATOM	1791	CA	HIS	A	243	16.802	24.875	-14.862	1.00
	25.06	A	C							
20	ATOM	1792	CB	HIS	A	243	17.234	24.062	-13.653	1.00
	25.31	A	C							
	ATOM	1793	CG	HIS	A	243	18.703	23.809	-13.595	1.00
	27.16	A	C							
	ATOM	1794	ND1	HIS	A	243	19.599	24.733	-13.086	1.00
	30.11	A	N							
25	ATOM	1795	CE1	HIS	A	243	20.820	24.231	-13.152	1.00
	30.29	A	C							
	ATOM	1796	NE2	HIS	A	243	20.752	23.036	-13.713	1.00
	29.63	A	N							
30	ATOM	1797	CD2	HIS	A	243	19.442	22.754	-14.008	1.00
	28.73	A	C							
	ATOM	1798	C	HIS	A	243	17.158	24.144	-16.162	1.00
	26.02	A	C							

	ATOM	1799	O	HIS	A	243	17.851	24.726	-17.003	1.00
	25.77	A	O							
	ATOM	1800	N	ASP	A	244	16.711	22.880	-16.299	1.00
	26.20	A	N							
5	ATOM	1801	CA	ASP	A	244	16.757	22.137	-17.584	1.00
	27.35	A	C							
	ATOM	1802	CB	ASP	A	244	17.972	21.252	-17.646	1.00
	28.02	A	C							
10	ATOM	1803	CG	ASP	A	244	18.211	20.272	-16.546	1.00
	29.28	A	C							
	ATOM	1804	OD1	ASP	A	244	19.393	20.188	-16.099	1.00
	34.73	A	O							
	ATOM	1805	OD2	ASP	A	244	17.310	19.568	-16.056	1.00
	28.43	A	O							
15	ATOM	1806	C	ASP	A	244	15.427	21.429	-17.760	1.00
	27.57	A	C							
	ATOM	1807	O	ASP	A	244	14.751	21.208	-16.721	1.00
	27.11	A	O							
20	ATOM	1808	N	SER	A	245	15.290	20.734	-18.836	1.00
	27.83	A	N							
	ATOM	1809	CA	SER	A	245	14.559	19.557	-19.209	1.00
	26.73	A	C							
	ATOM	1810	CB	SER	A	245	15.083	18.972	-20.483	1.00
	26.99	A	C							
25	ATOM	1811	OG	SER	A	245	15.792	17.785	-20.481	1.00
	27.12	A	O							
	ATOM	1812	C	SER	A	245	14.234	18.594	-18.102	1.00
	25.28	A	C							
30	ATOM	1813	O	SER	A	245	13.146	17.973	-18.152	1.00
	24.66	A	O							
	ATOM	1814	N	LYS	A	246	15.122	18.339	-17.176	1.00
	23.51	A	N							

	ATOM	1815	CA	LYS	A	246	14.918	17.304	-16.177	1.00
	22.90	A	C							
	ATOM	1816	CB	LYS	A	246	15.977	16.205	-16.332	1.00
	23.64	A	C							
5	ATOM	1817	CG	LYS	A	246	15.852	15.384	-17.600	1.00
	26.42	A	C							
	ATOM	1818	CD	LYS	A	246	17.094	14.548	-17.859	1.00
	29.39	A	C							
10	ATOM	1819	CE	LYS	A	246	16.880	13.584	-19.018	1.00
	32.94	A	C							
	ATOM	1820	NZ	LYS	A	246	18.070	13.501	-19.908	1.00
	37.30	A	N							
	ATOM	1821	C	LYS	A	246	14.812	17.762	-14.740	1.00
	21.77	A	C							
15	ATOM	1822	O	LYS	A	246	14.396	17.059	-13.828	1.00
	19.24	A	O							
	ATOM	1823	N	TYR	A	247	15.126	19.026	-14.452	1.00
	20.43	A	N							
20	ATOM	1824	CA	TYR	A	247	15.144	19.544	-13.079	1.00
	19.83	A	C							
	ATOM	1825	CB	TYR	A	247	16.541	19.398	-12.456	1.00
	19.35	A	C							
	ATOM	1826	CG	TYR	A	247	17.007	17.966	-12.434	1.00
	19.14	A	C							
25	ATOM	1827	CD1	TYR	A	247	17.784	17.442	-13.482	1.00
	21.08	A	C							
	ATOM	1828	CE1	TYR	A	247	18.170	16.121	-13.489	1.00
	17.97	A	C							
30	ATOM	1829	CZ	TYR	A	247	17.780	15.292	-12.458	1.00
	19.97	A	C							
	ATOM	1830	OH	TYR	A	247	18.159	13.964	-12.465	1.00
	18.06	A	O							

	ATOM	1831	CE2	TYR	A	247	16.999	15.781	-11.417	1.00
	18.19	A	C							
	ATOM	1832	CD2	TYR	A	247	16.630	17.109	-11.408	1.00
	19.09	A	C							
5	ATOM	1833	C	TYR	A	247	14.697	21.003	-13.069	1.00
	18.89	A	C							
	ATOM	1834	O	TYR	A	247	15.017	21.761	-13.994	1.00
	18.71	A	O							
10	ATOM	1835	N	ALA	A	248	13.936	21.385	-12.046	1.00
	17.07	A	N							
	ATOM	1836	CA	ALA	A	248	13.512	22.769	-11.893	1.00
	16.28	A	C							
	ATOM	1837	CB	ALA	A	248	12.294	23.035	-12.733	1.00
	15.85	A	C							
15	ATOM	1838	C	ALA	A	248	13.253	23.110	-10.425	1.00
	15.75	A	C							
	ATOM	1839	O	ALA	A	248	13.358	22.236	-9.549	1.00
	15.81	A	O							
20	ATOM	1840	N	TYR	A	249	12.956	24.384	-10.174	1.00
	15.33	A	N							
	ATOM	1841	CA	TYR	A	249	12.910	24.949	-8.832	1.00
	15.08	A	C							
	ATOM	1842	CB	TYR	A	249	13.520	26.336	-8.802	1.00
	15.54	A	C							
25	ATOM	1843	CG	TYR	A	249	14.999	26.398	-9.087	1.00
	15.33	A	C							
	ATOM	1844	CD1	TYR	A	249	15.470	26.675	-10.370	1.00
	17.29	A	C							
30	ATOM	1845	CE1	TYR	A	249	16.829	26.754	-10.640	1.00
	16.19	A	C							
	ATOM	1846	CZ	TYR	A	249	17.741	26.557	-9.608	1.00
	18.72	A	C							

	ATOM	1847	OH	TYR	A	249	19.088	26.649	-9.839	1.00
	21.92	A	O							
	ATOM	1848	CE2	TYR	A	249	17.306	26.287	-8.330	1.00
	18.20	A	C							
5	ATOM	1849	CD2	TYR	A	249	15.930	26.207	-8.070	1.00
	17.03	A	C							
	ATOM	1850	C	TYR	A	249	11.497	25.078	-8.358	1.00
	15.50	A	C							
10	ATOM	1851	O	TYR	A	249	10.599	25.480	-9.122	1.00
	16.06	A	O							
	ATOM	1852	N	MET	A	250	11.291	24.749	-7.082	1.00
	15.10	A	N							
	ATOM	1853	CA	MET	A	250	10.015	24.967	-6.430	1.00
	15.40	A	C							
15	ATOM	1854	CB	MET	A	250	9.153	23.703	-6.542	1.00
	15.90	A	C							
	ATOM	1855	CG	MET	A	250	7.677	23.947	-6.729	1.00
	19.64	A	C							
20	ATOM	1856	SD	MET	A	250	6.677	22.370	-6.869	1.00
	23.44	A	S							
	ATOM	1857	CE	MET	A	250	7.321	21.709	-8.163	1.00
	22.96	A	C							
	ATOM	1858	C	MET	A	250	10.274	25.318	-4.966	1.00
	15.09	A	C							
25	ATOM	1859	O	MET	A	250	11.366	25.081	-4.440	1.00
	15.78	A	O							
	ATOM	1860	N	GLY	A	251	9.279	25.888	-4.314	1.00
	14.69	A	N							
30	ATOM	1861	CA	GLY	A	251	9.373	26.203	-2.902	1.00
	13.76	A	C							
	ATOM	1862	C	GLY	A	251	8.026	26.058	-2.248	1.00
	14.49	A	C							

	ATOM	1863	O	GLY	A	251	6.984	26.057	-2.933	1.00
	13.60	A	O							
	ATOM	1864	N	GLY	A	252	8.056	25.926	-0.920	1.00
	12.84	A	N							
5	ATOM	1865	CA	GLY	A	252	6.879	25.694	-0.101	1.00
	13.22	A	C							
	ATOM	1866	C	GLY	A	252	7.242	24.765	1.058	1.00
	12.42	A	C							
10	ATOM	1867	O	GLY	A	252	8.354	24.185	1.073	1.00
	11.46	A	O							
	ATOM	1868	N	THR	A	253	6.328	24.598	2.008	1.00
	12.37	A	N							
	ATOM	1869	CA	THR	A	253	6.518	23.583	3.043	1.00
	12.51	A	C							
15	ATOM	1870	CB	THR	A	253	5.543	23.697	4.256	1.00
	13.05	A	C							
	ATOM	1871	OG1	THR	A	253	4.138	23.788	3.858	1.00
	11.78	A	O							
20	ATOM	1872	CG2	THR	A	253	5.837	24.964	5.042	1.00
	13.23	A	C							
	ATOM	1873	C	THR	A	253	6.463	22.211	2.396	1.00
	12.60	A	C							
	ATOM	1874	O	THR	A	253	6.945	21.239	2.966	1.00
	12.54	A	O							
25	ATOM	1875	N	SER	A	254	5.902	22.158	1.187	1.00
	12.69	A	N							
	ATOM	1876	CA	SER	A	254	5.905	20.957	0.357	1.00
	12.54	A	C							
30	ATOM	1877	CB	SER	A	254	5.228	21.233	-0.994	1.00
	12.41	A	C							
	ATOM	1878	OG	SER	A	254	3.822	21.002	-0.960	1.00
	11.90	A	O							

	ATOM	1879	C	SER	A	254	7.298	20.445	0.050	1.00
	12.52	A	C							
	ATOM	1880	O	SER	A	254	7.459	19.253	-0.150	1.00
	12.45	A	O							
5	ATOM	1881	N	MET	A	255	8.255	21.361	-0.054	1.00
	12.52	A	N							
	ATOM	1882	CA	MET	A	255	9.640	21.062	-0.385	1.00
	13.23	A	C							
10	ATOM	1883	CB	MET	A	255	10.260	22.231	-1.164	1.00
	13.16	A	C							
	ATOM	1884	CG	MET	A	255	9.955	22.255	-2.667	1.00
	13.61	A	C							
	ATOM	1885	SD	MET	A	255	8.220	22.693	-3.027	1.00
	16.25	A	S							
15	ATOM	1886	CE	MET	A	255	7.683	21.071	-3.591	1.00
	13.35	A	C							
	ATOM	1887	C	MET	A	255	10.478	20.759	0.873	1.00
	13.32	A	C							
20	ATOM	1888	O	MET	A	255	11.396	19.934	0.847	1.00
	13.21	A	O							
	ATOM	1889	N	ALA	A	256	10.162	21.415	1.981	1.00
	12.98	A	N							
	ATOM	1890	CA	ALA	A	256	10.904	21.161	3.213	1.00
	12.47	A	C							
25	ATOM	1891	CB	ALA	A	256	10.516	22.175	4.265	1.00
	11.99	A	C							
	ATOM	1892	C	ALA	A	256	10.645	19.737	3.717	1.00
	11.89	A	C							
30	ATOM	1893	O	ALA	A	256	11.553	19.018	4.179	1.00
	11.48	A	O							
	ATOM	1894	N	THR	A	257	9.390	19.341	3.629	1.00
	11.55	A	N							

	ATOM	1895	CA	THR	A	257	8.944	18.065	4.146	1.00
	11.50	A	C							
	ATOM	1896	CB	THR	A	257	7.423	17.938	3.908	1.00
	12.07	A	C							
5	ATOM	1897	OG1	THR	A	257	6.754	19.013	4.569	1.00
	13.08	A	O							
	ATOM	1898	CG2	THR	A	257	6.838	16.661	4.540	1.00
	12.46	A	C							
10	ATOM	1899	C	THR	A	257	9.705	16.849	3.587	1.00
	11.20	A	C							
	ATOM	1900	O	THR	A	257	10.172	16.018	4.382	1.00
	11.03	A	O							
	ATOM	1901	N	PRO	A	258	9.781	16.686	2.259	1.00
	11.22	A	N							
15	ATOM	1902	CA	PRO	A	258	10.466	15.521	1.687	1.00
	10.92	A	C							
	ATOM	1903	CB	PRO	A	258	10.200	15.644	0.182	1.00
	10.45	A	C							
20	ATOM	1904	CG	PRO	A	258	9.884	17.057	-0.029	1.00
	11.62	A	C							
	ATOM	1905	CD	PRO	A	258	9.164	17.504	1.207	1.00
	10.92	A	C							
	ATOM	1906	C	PRO	A	258	11.969	15.503	1.976	1.00
	10.83	A	C							
25	ATOM	1907	O	PRO	A	258	12.524	14.417	2.020	1.00
	9.95	A	O							
	ATOM	1908	N	ILE	A	259	12.605	16.665	2.160	1.00
	11.19	A	N							
30	ATOM	1909	CA	ILE	A	259	14.004	16.711	2.597	1.00
	11.51	A	C							
	ATOM	1910	CB	ILE	A	259	14.439	18.183	2.712	1.00
	11.81	A	C							

	ATOM	1911	CG1	ILE	A	259	14.492	18.843	1.314	1.00
	14.15	A	C							
	ATOM	1912	CD1	ILE	A	259	15.690	18.403	0.504	1.00
	17.31	A	C							
5	ATOM	1913	CG2	ILE	A	259	15.790	18.313	3.375	1.00
	11.02	A	C							
	ATOM	1914	C	ILE	A	259	14.147	15.975	3.950	1.00
	11.56	A	C							
10	ATOM	1915	O	ILE	A	259	15.038	15.133	4.124	1.00
	11.81	A	O							
	ATOM	1916	N	VAL	A	260	13.259	16.295	4.886	1.00
	11.02	A	N							
	ATOM	1917	CA	VAL	A	260	13.244	15.668	6.199	1.00
	12.26	A	C							
15	ATOM	1918	CB	VAL	A	260	12.301	16.412	7.150	1.00
	12.30	A	C							
	ATOM	1919	CG1	VAL	A	260	12.286	15.743	8.557	1.00
	12.78	A	C							
20	ATOM	1920	CG2	VAL	A	260	12.721	17.855	7.268	1.00
	13.51	A	C							
	ATOM	1921	C	VAL	A	260	12.847	14.185	6.106	1.00
	12.24	A	C							
	ATOM	1922	O	VAL	A	260	13.412	13.339	6.786	1.00
	12.79	A	O							
25	ATOM	1923	N	ALA	A	261	11.922	13.864	5.217	1.00
	12.41	A	N							
	ATOM	1924	CA	ALA	A	261	11.530	12.480	4.997	1.00
	11.93	A	C							
30	ATOM	1925	CB	ALA	A	261	10.426	12.376	3.920	1.00
	12.16	A	C							
	ATOM	1926	C	ALA	A	261	12.750	11.661	4.585	1.00
	11.91	A	C							

	ATOM	1927	O	ALA	A	261	12.943	10.560	5.055	1.00
	11.34	A	O							
	ATOM	1928	N	GLY	A	262	13.550	12.186	3.665	1.00
	12.22	A	N							
5	ATOM	1929	CA	GLY	A	262	14.794	11.533	3.291	1.00
	12.29	A	C							
	ATOM	1930	C	GLY	A	262	15.786	11.431	4.447	1.00
	12.34	A	C							
10	ATOM	1931	O	GLY	A	262	16.414	10.386	4.660	1.00
	11.90	A	O							
	ATOM	1932	N	ASN	A	263	15.901	12.490	5.243	1.00
	12.20	A	N							
	ATOM	1933	CA	ASN	A	263	16.744	12.433	6.435	1.00
	11.84	A	C							
15	ATOM	1934	CB	ASN	A	263	16.772	13.773	7.170	1.00
	12.31	A	C							
	ATOM	1935	CG	ASN	A	263	17.389	14.887	6.351	1.00
	13.12	A	C							
20	ATOM	1936	OD1	ASN	A	263	18.326	14.681	5.525	1.00
	15.95	A	O							
	ATOM	1937	ND2	ASN	A	263	16.924	16.073	6.600	1.00
	9.15	A	N							
	ATOM	1938	C	ASN	A	263	16.289	11.348	7.396	1.00
	11.83	A	C							
25	ATOM	1939	O	ASN	A	263	17.112	10.672	8.020	1.00
	11.88	A	O							
	ATOM	1940	N	VAL	A	264	14.983	11.181	7.517	1.00
	11.77	A	N							
30	ATOM	1941	CA	VAL	A	264	14.425	10.138	8.367	1.00
	12.33	A	C							
	ATOM	1942	CB	VAL	A	264	12.893	10.268	8.506	1.00
	12.44	A	C							

	ATOM	1943	CG1	VAL	A	264	12.280	9.045	9.178	1.00
	12.44	A	C							
	ATOM	1944	CG2	VAL	A	264	12.543	11.471	9.323	1.00
	13.22	A	C							
5	ATOM	1945	C	VAL	A	264	14.817	8.754	7.843	1.00
	11.95	A	C							
	ATOM	1946	O	VAL	A	264	15.164	7.896	8.625	1.00
	12.24	A	O							
10	ATOM	1947	N	ALA	A	265	14.813	8.553	6.527	1.00
	12.03	A	N							
	ATOM	1948	CA	ALA	A	265	15.279	7.292	5.966	1.00
	11.47	A	C							
	ATOM	1949	CB	ALA	A	265	15.018	7.237	4.460	1.00
	11.96	A	C							
15	ATOM	1950	C	ALA	A	265	16.746	7.046	6.293	1.00
	11.77	A	C							
	ATOM	1951	O	ALA	A	265	17.139	5.932	6.592	1.00
	11.77	A	O							
20	ATOM	1952	N	GLN	A	266	17.571	8.091	6.262	1.00
	12.48	A	N							
	ATOM	1953	CA	GLN	A	266	18.999	7.940	6.586	1.00
	11.99	A	C							
	ATOM	1954	CB	GLN	A	266	19.782	9.230	6.311	1.00
	10.90	A	C							
25	ATOM	1955	CG	GLN	A	266	19.786	9.691	4.865	1.00
	12.48	A	C							
	ATOM	1956	CD	GLN	A	266	20.548	11.011	4.671	1.00
	12.24	A	C							
30	ATOM	1957	OE1	GLN	A	266	21.762	11.028	4.352	1.00
	16.02	A	O							
	ATOM	1958	NE2	GLN	A	266	19.857	12.088	4.853	1.00
	8.53	A	N							

	ATOM 12.14	1959 A	C C	GLN A 266	19.159	7.571	8.046	1.00
	ATOM 12.13	1960 A	O O	GLN A 266	19.927	6.688	8.398	1.00
5	ATOM 12.44	1961 A	N N	LEU A 267	18.463	8.305	8.898	1.00
	ATOM 12.06	1962 A	CA C	LEU A 267	18.473	8.049	10.317	1.00
10	ATOM 12.45	1963 A	CB C	LEU A 267	17.624	9.107	11.014	1.00
	ATOM 12.15	1964 A	CG C	LEU A 267	17.550	9.097	12.540	1.00
	ATOM 12.99	1965 A	CD1 C	LEU A 267	18.918	9.293	13.116	1.00
15	ATOM 12.84	1966 A	CD2 C	LEU A 267	16.616	10.187	13.009	1.00
	ATOM 12.72	1967 A	C C	LEU A 267	17.984	6.649	10.654	1.00
20	ATOM 12.91	1968 A	O O	LEU A 267	18.581	5.972	11.497	1.00
	ATOM 12.54	1969 A	N N	ARG A 268	16.872	6.219	10.044	1.00
	ATOM 12.31	1970 A	CA C	ARG A 268	16.295	4.886	10.321	1.00
25	ATOM 12.21	1971 A	CB C	ARG A 268	14.961	4.722	9.577	1.00
	ATOM 12.56	1972 A	CG C	ARG A 268	14.016	3.635	10.155	1.00
30	ATOM 14.20	1973 A	CD C	ARG A 268	12.652	3.605	9.510	1.00
	ATOM 14.70	1974 A	NE N	ARG A 268	11.781	2.591	10.105	1.00

	ATOM	1975	CZ	ARG	A	268	11.837	1.306	9.829	1.00
	14.81	A	C							
	ATOM	1976	NH1	ARG	A	268	12.697	0.829	8.942	1.00
	14.11	A	N							
5	ATOM	1977	NH2	ARG	A	268	10.993	0.483	10.432	1.00
	15.99	A	N							
	ATOM	1978	C	ARG	A	268	17.284	3.763	9.929	1.00
	12.37	A	C							
10	ATOM	1979	O	ARG	A	268	17.533	2.837	10.689	1.00
	11.86	A	O							
	ATOM	1980	N	GLU	A	269	17.846	3.870	8.729	1.00
	11.97	A	N							
	ATOM	1981	CA	GLU	A	269	18.965	3.026	8.306	1.00
	12.12	A	C							
15	ATOM	1982	CB	GLU	A	269	19.561	3.537	6.993	1.00
	11.36	A	C							
	ATOM	1983	CG	GLU	A	269	20.764	2.715	6.542	1.00
	12.78	A	C							
20	ATOM	1984	CD	GLU	A	269	21.477	3.260	5.335	1.00
	15.24	A	C							
	ATOM	1985	OE1	GLU	A	269	21.277	4.447	5.007	1.00
	16.05	A	O							
	ATOM	1986	OE2	GLU	A	269	22.246	2.479	4.711	1.00
	16.25	A	O							
25	ATOM	1987	C	GLU	A	269	20.082	2.954	9.354	1.00
	12.56	A	C							
	ATOM	1988	O	GLU	A	269	20.596	1.875	9.645	1.00
	12.26	A	O							
30	ATOM	1989	N	HIS	A	270	20.482	4.104	9.894	1.00
	12.79	A	N							
	ATOM	1990	CA	HIS	A	270	21.556	4.119	10.859	1.00
	12.79	A	C							

	ATOM 12.76	1991 A	CB C	HIS A 270	21.918	5.531	11.289	1.00
	ATOM 10.01	1992 A	CG C	BHIS A 270	23.160	5.583	12.120	0.50
5	ATOM 15.58	1993 A	CG C	AHIS A 270	23.195	5.601	12.063	0.50
	ATOM 7.23	1994 A	ND1B N	HIS A 270	23.186	6.137	13.385	0.50
10	ATOM 20.08	1995 A	ND1A N	HIS A 270	23.243	5.459	13.432	0.50
	ATOM 6.26	1996 A	CE1B C	HIS A 270	24.404	6.019	13.885	0.50
	ATOM 20.34	1997 A	CE1A C	HIS A 270	24.498	5.548	13.839	0.50
15	ATOM 8.61	1998 A	NE2B N	HIS A 270	25.163	5.387	13.000	0.50
	ATOM 20.61	1999 A	NE2A N	HIS A 270	25.265	5.744	12.783	0.50
20	ATOM 6.18	2000 A	CD2B C	HIS A 270	24.405	5.102	11.888	0.50
	ATOM 18.53	2001 A	CD2A C	HIS A 270	24.475	5.782	11.659	0.50
	ATOM 12.75	2002 A	C C	HIS A 270	21.210	3.294	12.099	1.00
25	ATOM 12.88	2003 A	O O	HIS A 270	22.031	2.541	12.562	1.00
	ATOM 12.25	2004 A	N N	PHE A 271	20.009	3.468	12.666	1.00
30	ATOM 12.36	2005 A	CA C	PHE A 271	19.642	2.680	13.834	1.00
	ATOM 12.01	2006 A	CB C	PHE A 271	18.274	3.114	14.370	1.00

5	ATOM 11.54	2007 A	CG C	PHE A 271	18.328	4.292	15.293	1.00
	ATOM 12.44	2008 A	CD1 C	PHE A 271	18.557	4.127	16.643	1.00
	ATOM 13.55	2009 A	CE1 C	PHE A 271	18.601	5.229	17.500	1.00
	ATOM 11.92	2010 A	CZ C	PHE A 271	18.400	6.479	17.016	1.00
	ATOM 15.14	2011 A	CE2 C	PHE A 271	18.145	6.655	15.663	1.00
10	ATOM 13.90	2012 A	CD2 C	PHE A 271	18.096	5.567	14.820	1.00
	ATOM 13.05	2013 A	C C	PHE A 271	19.620	1.178	13.492	1.00
	ATOM 15.06	2014 A	O O	PHE A 271	20.147	0.341	14.240	1.00
	ATOM 12.88	2015 A	N N	VAL A 272	19.007	0.850	12.371	1.00
	ATOM 13.79	2016 A	CA C	VAL A 272	18.765	-0.526	11.961	1.00
20	ATOM 13.45	2017 A	CB C	VAL A 272	17.856	-0.539	10.706	1.00
	ATOM 15.25	2018 A	CG1 C	VAL A 272	17.977	-1.840	9.953	1.00
	ATOM 13.55	2019 A	CG2 C	VAL A 272	16.429	-0.264	11.112	1.00
	ATOM 14.17	2020 A	C C	VAL A 272	20.068	-1.276	11.689	1.00
	ATOM 14.67	2021 A	O O	VAL A 272	20.242	-2.415	12.162	1.00
30	ATOM 14.25	2022 A	N N	LYS A 273	20.992	-0.619	10.990	1.00

	ATOM 14.60	2023 A	CA C	LYS A 273	22.255	-1.217	10.606	1.00
	ATOM 14.93	2024 A	CB C	LYS A 273	22.759	-0.664	9.267	1.00
5	ATOM 15.97	2025 A	CG C	LYS A 273	21.893	-1.085	8.052	1.00
	ATOM 14.97	2026 A	CD C	LYS A 273	22.432	-0.488	6.729	1.00
10	ATOM 16.43	2027 A	CE C	LYS A 273	21.735	-1.010	5.482	1.00
	ATOM 13.02	2028 A	NZ N	LYS A 273	22.131	-0.162	4.300	1.00
	ATOM 14.97	2029 A	C C	LYS A 273	23.366	-1.133	11.645	1.00
15	ATOM 12.32	2030 A	O O	LYS A 273	24.172	-2.075	11.740	1.00
	ATOM 14.72	2031 A	N N	ASN A 274	23.402	-0.033	12.403	1.00
20	ATOM 15.62	2032 A	CA C	ASN A 274	24.556	0.298	13.225	1.00
	ATOM 16.07	2033 A	CB C	ASN A 274	25.197	1.649	12.786	1.00
	ATOM 17.59	2034 A	CG C	ASN A 274	25.555	1.662	11.290	1.00
25	ATOM 18.70	2035 A	OD1 O	ASN A 274	25.285	2.647	10.543	1.00
	ATOM 13.05	2036 A	ND2 N	ASN A 274	26.124	0.561	10.839	1.00
30	ATOM 15.60	2037 A	C C	ASN A 274	24.253	0.365	14.694	1.00
	ATOM 15.70	2038 A	O O	ASN A 274	25.165	0.449	15.465	1.00

	ATOM	2039	N	ARG	A	275	22.979	0.348	15.092	1.00
	14.80	A	N							
	ATOM	2040	CA	ARG	A	275	22.670	0.517	16.505	1.00
	15.19	A	C							
5	ATOM	2041	CB	ARG	A	275	22.046	1.883	16.723	1.00
	14.89	A	C							
	ATOM	2042	CG	ARG	A	275	22.925	3.001	16.141	1.00
	17.88	A	C							
10	ATOM	2043	CD	ARG	A	275	22.682	4.354	16.748	1.00
	17.97	A	C							
	ATOM	2044	NE	ARG	A	275	23.098	4.391	18.146	1.00
	15.44	A	N							
	ATOM	2045	CZ	ARG	A	275	22.783	5.383	18.977	1.00
	18.17	A	C							
15	ATOM	2046	NH1	ARG	A	275	22.080	6.422	18.540	1.00
	17.27	A	N							
	ATOM	2047	NH2	ARG	A	275	23.191	5.356	20.239	1.00
	17.72	A	N							
20	ATOM	2048	C	ARG	A	275	21.796	-0.573	17.088	1.00
	14.64	A	C							
	ATOM	2049	O	ARG	A	275	21.382	-0.456	18.212	1.00
	15.75	A	O							
	ATOM	2050	N	GLY	A	276	21.459	-1.577	16.283	1.00
	14.66	A	N							
25	ATOM	2051	CA	GLY	A	276	20.880	-2.825	16.771	1.00
	14.63	A	C							
	ATOM	2052	C	GLY	A	276	19.403	-2.811	17.060	1.00
	14.40	A	C							
30	ATOM	2053	O	GLY	A	276	18.863	-3.751	17.664	1.00
	13.52	A	O							
	ATOM	2054	N	VAL	A	277	18.729	-1.745	16.638	1.00
	14.10	A	N							

	ATOM	2055	CA	VAL	A	277	17.318	-1.618	16.894	1.00
	14.10	A	C							
	ATOM	2056	CB	VAL	A	277	17.021	-0.657	18.097	1.00
	14.71	A	C							
5	ATOM	2057	CG1	VAL	A	277	17.768	-1.058	19.354	1.00
	14.49	A	C							
	ATOM	2058	CG2	VAL	A	277	17.268	0.771	17.733	1.00
	15.67	A	C							
10	ATOM	2059	C	VAL	A	277	16.547	-1.097	15.689	1.00
	13.79	A	C							
	ATOM	2060	O	VAL	A	277	17.082	-0.372	14.853	1.00
	14.29	A	O							
	ATOM	2061	N	THR	A	278	15.273	-1.472	15.607	1.00
	14.21	A	N							
15	ATOM	2062	CA	THR	A	278	14.325	-0.778	14.749	1.00
	14.50	A	C							
	ATOM	2063	CB	THR	A	278	13.187	-1.700	14.301	1.00
	15.23	A	C							
20	ATOM	2064	OG1	THR	A	278	13.744	-2.825	13.607	1.00
	19.10	A	O							
	ATOM	2065	CG2	THR	A	278	12.304	-0.986	13.245	1.00
	17.53	A	C							
	ATOM	2066	C	THR	A	278	13.760	0.394	15.526	1.00
	13.49	A	C							
25	ATOM	2067	O	THR	A	278	13.028	0.210	16.485	1.00
	13.51	A	O							
	ATOM	2068	N	PRO	A	279	14.104	1.612	15.134	1.00
	12.55	A	N							
30	ATOM	2069	CA	PRO	A	279	13.679	2.803	15.896	1.00
	11.32	A	C							
	ATOM	2070	CB	PRO	A	279	14.520	3.920	15.277	1.00
	11.71	A	C							

	ATOM	2071	CG	PRO	A	279	14.682	3.493	13.842	1.00
	11.40	A	C							
	ATOM	2072	CD	PRO	A	279	14.817	1.975	13.895	1.00
	12.28	A	C							
5	ATOM	2073	C	PRO	A	279	12.211	3.055	15.672	1.00
	11.90	A	C							
	ATOM	2074	O	PRO	A	279	11.786	3.053	14.516	1.00
	12.19	A	O							
10	ATOM	2075	N	LYS	A	280	11.438	3.212	16.743	1.00
	11.50	A	N							
	ATOM	2076	CA	LYS	A	280	10.020	3.518	16.639	1.00
	12.77	A	C							
	ATOM	2077	CB	LYS	A	280	9.354	3.389	18.024	1.00
	13.46	A	C							
15	ATOM	2078	CG	LYS	A	280	9.324	1.993	18.573	1.00
	15.21	A	C							
	ATOM	2079	CD	LYS	A	280	8.273	1.192	17.861	1.00
	20.42	A	C							
20	ATOM	2080	CE	LYS	A	280	8.012	-0.146	18.555	1.00
	23.45	A	C							
	ATOM	2081	NZ	LYS	A	280	6.935	-0.858	17.808	1.00
	26.12	A	N							
	ATOM	2082	C	LYS	A	280	9.811	4.951	16.120	1.00
	11.96	A	C							
25	ATOM	2083	O	LYS	A	280	10.710	5.782	16.200	1.00
	13.23	A	O							
	ATOM	2084	N	PRO	A	281	8.666	5.233	15.512	1.00
	12.23	A	N							
30	ATOM	2085	CA	PRO	A	281	8.370	6.608	15.073	1.00
	11.69	A	C							
	ATOM	2086	CB	PRO	A	281	6.897	6.540	14.763	1.00
	12.25	A	C							

	ATOM	2087	CG	PRO	A	281	6.755	5.162	14.210	1.00
	12.66	A	C							
	ATOM	2088	CD	PRO	A	281	7.592	4.300	15.126	1.00
	11.87	A	C							
5	ATOM	2089	C	PRO	A	281	8.682	7.678	16.105	1.00
	11.94	A	C							
	ATOM	2090	O	PRO	A	281	9.287	8.708	15.734	1.00
	11.60	A	O							
10	ATOM	2091	N	SER	A	282	8.303	7.447	17.374	1.00
	11.91	A	N							
	ATOM	2092	CA	SER	A	282	8.579	8.404	18.442	1.00
	11.78	A	C							
	ATOM	2093	CB	SER	A	282	8.017	7.930	19.789	1.00
	11.85	A	C							
15	ATOM	2094	OG	SER	A	282	8.503	6.639	20.117	1.00
	12.30	A	O							
	ATOM	2095	C	SER	A	282	10.049	8.704	18.654	1.00
	11.36	A	C							
20	ATOM	2096	O	SER	A	282	10.402	9.835	19.014	1.00
	11.10	A	O							
	ATOM	2097	N	LEU	A	283	10.896	7.696	18.498	1.00
	11.81	A	N							
	ATOM	2098	CA	LEU	A	283	12.332	7.889	18.642	1.00
	11.66	A	C							
25	ATOM	2099	CB	LEU	A	283	13.042	6.532	18.856	1.00
	11.73	A	C							
	ATOM	2100	CG	LEU	A	283	14.575	6.628	18.893	1.00
	11.60	A	C							
30	ATOM	2101	CD1	LEU	A	283	15.029	7.501	20.001	1.00
	10.08	A	C							
	ATOM	2102	CD2	LEU	A	283	15.180	5.233	19.066	1.00
	15.86	A	C							

	ATOM	2103	C	LEU	A	283	12.953	8.650	17.465	1.00
	11.15	A	C							
	ATOM	2104	O	LEU	A	283	13.812	9.515	17.644	1.00
	11.72	A	O							
5	ATOM	2105	N	LEU	A	284	12.575	8.305	16.244	1.00
	11.65	A	N							
	ATOM	2106	CA	LEU	A	284	13.056	9.058	15.088	1.00
	10.89	A	C							
10	ATOM	2107	CB	LEU	A	284	12.493	8.470	13.802	1.00
	10.71	A	C							
	ATOM	2108	CG	LEU	A	284	13.010	7.059	13.442	1.00
	10.82	A	C							
	ATOM	2109	CD1	LEU	A	284	12.102	6.419	12.399	1.00
	10.74	A	C							
15	ATOM	2110	CD2	LEU	A	284	14.425	7.107	12.953	1.00
	10.79	A	C							
	ATOM	2111	C	LEU	A	284	12.741	10.568	15.245	1.00
	10.24	A	C							
20	ATOM	2112	O	LEU	A	284	13.591	11.414	15.013	1.00
	9.64	A	O							
	ATOM	2113	N	LYS	A	285	11.527	10.868	15.682	1.00
	10.77	A	N							
	ATOM	2114	CA	LYS	A	285	11.054	12.217	15.890	1.00
	10.81	A	C							
25	ATOM	2115	CB	LYS	A	285	9.544	12.188	16.152	1.00
	10.59	A	C							
	ATOM	2116	CG	LYS	A	285	8.909	13.531	16.527	1.00
	10.18	A	C							
30	ATOM	2117	CD	LYS	A	285	7.372	13.380	16.583	1.00
	12.54	A	C							
	ATOM	2118	CE	LYS	A	285	6.660	14.630	17.085	1.00
	11.16	A	C							

	ATOM	2119	NZ	LYS	A	285	5.159	14.525	16.941	1.00
	9.27	A	N							
	ATOM	2120	C	LYS	A	285	11.816	12.886	17.037	1.00
	10.86	A	C							
5	ATOM	2121	O	LYS	A	285	12.287	13.995	16.888	1.00
	11.16	A	O							
	ATOM	2122	N	ALA	A	286	11.964	12.194	18.156	1.00
	10.94	A	N							
10	ATOM	2123	CA	ALA	A	286	12.744	12.722	19.280	1.00
	11.16	A	C							
	ATOM	2124	CB	ALA	A	286	12.657	11.813	20.437	1.00
	11.37	A	C							
	ATOM	2125	C	ALA	A	286	14.206	12.952	18.897	1.00
	10.98	A	C							
15	ATOM	2126	O	ALA	A	286	14.794	13.947	19.275	1.00
	10.07	A	O							
	ATOM	2127	N	ALA	A	287	14.778	12.048	18.115	1.00
	11.61	A	N							
20	ATOM	2128	CA	ALA	A	287	16.175	12.206	17.679	1.00
	12.13	A	C							
	ATOM	2129	CB	ALA	A	287	16.692	10.922	17.034	1.00
	11.58	A	C							
	ATOM	2130	C	ALA	A	287	16.349	13.411	16.742	1.00
	12.42	A	C							
25	ATOM	2131	O	ALA	A	287	17.310	14.165	16.873	1.00
	11.82	A	O							
	ATOM	2132	N	LEU	A	288	15.407	13.623	15.826	1.00
	12.37	A	N							
30	ATOM	2133	CA	LEU	A	288	15.473	14.808	14.956	1.00
	13.09	A	C							
	ATOM	2134	CB	LEU	A	288	14.357	14.775	13.917	1.00
	13.67	A	C							

	ATOM	2135	CG	LEU	A	288	14.552	13.833	12.736	1.00
	15.39	A	C							
	ATOM	2136	CD1	LEU	A	288	13.379	14.033	11.840	1.00
	19.44	A	C							
5	ATOM	2137	CD2	LEU	A	288	15.842	14.113	11.974	1.00
	15.17	A	C							
	ATOM	2138	C	LEU	A	288	15.329	16.105	15.747	1.00
	12.69	A	C							
10	ATOM	2139	O	LEU	A	288	16.014	17.107	15.481	1.00
	12.69	A	O							
	ATOM	2140	N	ILE	A	289	14.412	16.096	16.704	1.00
	12.33	A	N							
	ATOM	2141	CA	ILE	A	289	14.195	17.261	17.546	1.00
	12.69	A	C							
15	ATOM	2142	CB	ILE	A	289	12.920	17.084	18.397	1.00
	12.55	A	C							
	ATOM	2143	CG1	ILE	A	289	11.688	17.178	17.488	1.00
	11.46	A	C							
20	ATOM	2144	CD1	ILE	A	289	10.404	16.725	18.104	1.00
	10.00	A	C							
	ATOM	2145	CG2	ILE	A	289	12.869	18.098	19.506	1.00
	13.54	A	C							
	ATOM	2146	C	ILE	A	289	15.412	17.596	18.426	1.00
	12.74	A	C							
25	ATOM	2147	O	ILE	A	289	15.844	18.746	18.442	1.00
	13.36	A	O							
	ATOM	2148	N	ALA	A	290	15.975	16.612	19.132	1.00
	11.71	A	N							
30	ATOM	2149	CA	ALA	A	290	17.132	16.854	19.976	1.00
	11.73	A	C							
	ATOM	2150	CB	ALA	A	290	17.529	15.593	20.698	1.00
	12.08	A	C							

	ATOM	2151	C	ALA	A	290	18.326	17.370	19.191	1.00
	11.95	A	C							
	ATOM	2152	O	ALA	A	290	19.114	18.198	19.689	1.00
	10.65	A	O							
5	ATOM	2153	N	GLY	A	291	18.472	16.866	17.979	1.00
	11.84	A	N							
	ATOM	2154	CA	GLY	A	291	19.633	17.207	17.171	1.00
	12.60	A	C							
	ATOM	2155	C	GLY	A	291	19.466	18.506	16.400	1.00
10	12.44	A	C							
	ATOM	2156	O	GLY	A	291	20.437	19.018	15.847	1.00
	11.56	A	O							
	ATOM	2157	N	ALA	A	292	18.249	19.056	16.378	1.00
	12.96	A	N							
15	ATOM	2158	CA	ALA	A	292	17.960	20.238	15.562	1.00
	13.11	A	C							
	ATOM	2159	CB	ALA	A	292	16.454	20.468	15.434	1.00
	12.99	A	C							
	ATOM	2160	C	ALA	A	292	18.655	21.499	16.075	1.00
20	13.45	A	C							
	ATOM	2161	O	ALA	A	292	18.954	21.612	17.252	1.00
	13.95	A	O							
	ATOM	2162	N	ALA	A	293	18.848	22.456	15.173	1.00
	13.18	A	N							
25	ATOM	2163	CA	ALA	A	293	19.567	23.694	15.450	1.00
	13.43	A	C							
	ATOM	2164	CB	ALA	A	293	20.508	24.012	14.284	1.00
	13.22	A	C							
	ATOM	2165	C	ALA	A	293	18.611	24.866	15.637	1.00
30	13.54	A	C							
	ATOM	2166	O	ALA	A	293	17.739	25.107	14.812	1.00
	13.39	A	O							

	ATOM	2167	N	ASP	A	294	18.838	25.626	16.691	1.00
	13.60	A	N							
	ATOM	2168	CA	ASP	A	294	18.167	26.895	16.899	1.00
	14.04	A	C							
5	ATOM	2169	CB	ASP	A	294	18.590	27.428	18.270	1.00
	14.33	A	C							
	ATOM	2170	CG	ASP	A	294	17.918	28.728	18.634	1.00
	14.83	A	C							
10	ATOM	2171	OD1	ASP	A	294	18.142	29.160	19.799	1.00
	11.77	A	O							
	ATOM	2172	OD2	ASP	A	294	17.144	29.360	17.861	1.00
	10.92	A	O							
	ATOM	2173	C	ASP	A	294	18.620	27.814	15.774	1.00
	13.72	A	C							
15	ATOM	2174	O	ASP	A	294	19.801	28.075	15.636	1.00
	14.66	A	O							
	ATOM	2175	N	VAL	A	295	17.696	28.304	14.956	1.00
	14.43	A	N							
20	ATOM	2176	CA	VAL	A	295	18.057	29.217	13.853	1.00
	14.05	A	C							
	ATOM	2177	CB	VAL	A	295	16.957	29.283	12.730	1.00
	13.77	A	C							
	ATOM	2178	CG1	VAL	A	295	16.670	27.907	12.184	1.00
	13.93	A	C							
25	ATOM	2179	CG2	VAL	A	295	15.680	29.956	13.255	1.00
	12.53	A	C							
	ATOM	2180	C	VAL	A	295	18.352	30.622	14.346	1.00
	14.82	A	C							
30	ATOM	2181	O	VAL	A	295	18.707	31.497	13.558	1.00
	15.77	A	O							
	ATOM	2182	N	GLY	A	296	18.190	30.857	15.646	1.00
	14.99	A	N							

	ATOM 15.10	2183 A	CA C	GLY A 296	18.450	32.159	16.208	1.00
	ATOM 15.03	2184 A	C C	GLY A 296	17.282	32.821	16.906	1.00
5	ATOM 15.00	2185 A	O O	GLY A 296	17.458	33.886	17.489	1.00
	ATOM 16.05	2186 A	N N	LEU A 297	16.114	32.180	16.887	1.00
10	ATOM 15.21	2187 A	CA C	LEU A 297	14.903	32.728	17.501	1.00
	ATOM 14.95	2188 A	CB C	LEU A 297	13.704	32.420	16.605	1.00
	ATOM 17.47	2189 A	CG C	LEU A 297	13.881	32.962	15.179	1.00
15	ATOM 19.73	2190 A	CD1 C	LEU A 297	12.718	32.507	14.330	1.00
	ATOM 18.75	2191 A	CD2 C	LEU A 297	13.939	34.500	15.204	1.00
20	ATOM 15.26	2192 A	C C	LEU A 297	14.645	32.187	18.903	1.00
	ATOM 14.95	2193 A	O O	LEU A 297	13.782	32.682	19.636	1.00
	ATOM 15.28	2194 A	N N	GLY A 298	15.380	31.152	19.266	1.00
25	ATOM 15.27	2195 A	CA C	GLY A 298	15.251	30.546	20.570	1.00
	ATOM 15.55	2196 A	C C	GLY A 298	14.024	29.691	20.721	1.00
30	ATOM 15.07	2197 A	O O	GLY A 298	13.173	29.572	19.817	1.00
	ATOM 15.47	2198 A	N N	PHE A 299	13.941	29.090	21.894	1.00

	ATOM	2199	CA	PHE	A	299	12.820	28.269	22.266	1.00
	16.76	A	C							
	ATOM	2200	CB	PHE	A	299	13.279	26.818	22.539	1.00
	16.33	A	C							
5	ATOM	2201	CG	PHE	A	299	14.108	26.237	21.435	1.00
	16.07	A	C							
	ATOM	2202	CD1	PHE	A	299	13.572	26.047	20.167	1.00
	15.70	A	C							
10	ATOM	2203	CE1	PHE	A	299	14.349	25.544	19.132	1.00
	15.95	A	C							
	ATOM	2204	CZ	PHE	A	299	15.660	25.233	19.357	1.00
	15.27	A	C							
	ATOM	2205	CE2	PHE	A	299	16.217	25.432	20.610	1.00
	15.20	A	C							
15	ATOM	2206	CD2	PHE	A	299	15.436	25.929	21.642	1.00
	17.28	A	C							
	ATOM	2207	C	PHE	A	299	12.200	28.872	23.504	1.00
	17.91	A	C							
20	ATOM	2208	O	PHE	A	299	12.886	29.548	24.280	1.00
	19.79	A	O							
	ATOM	2209	N	PRO	A	300	10.904	28.683	23.680	1.00
	19.34	A	N							
	ATOM	2210	CA	PRO	A	300	10.054	27.945	22.747	1.00
	20.29	A	C							
25	ATOM	2211	CB	PRO	A	300	8.819	27.671	23.583	1.00
	20.94	A	C							
	ATOM	2212	CG	PRO	A	300	8.712	28.898	24.513	1.00
	19.43	A	C							
30	ATOM	2213	CD	PRO	A	300	10.120	29.311	24.758	1.00
	20.25	A	C							
	ATOM	2214	C	PRO	A	300	9.672	28.834	21.581	1.00
	20.84	A	C							

	ATOM 21.44	2215 A	O O	PRO A 300	9.921	30.043	21.655	1.00
	ATOM 21.28	2216 A	N N	ASN A 301	9.076	28.282	20.524	1.00
5	ATOM 21.53	2217 A	CA C	ASN A 301	8.874	29.078	19.319	1.00
	ATOM 21.34	2218 A	CB C	ASN A 301	10.198	29.173	18.567	1.00
10	ATOM 20.14	2219 A	CG C	ASN A 301	10.320	30.458	17.764	1.00
	ATOM 17.42	2220 A	OD1 O	ASN A 301	9.875	30.553	16.607	1.00
	ATOM 22.84	2221 A	ND2 N	ASN A 301	10.920	31.454	18.371	1.00
15	ATOM 22.14	2222 A	C C	ASN A 301	7.823	28.534	18.355	1.00
	ATOM 23.49	2223 A	O O	ASN A 301	7.868	27.379	17.978	1.00
20	ATOM 22.24	2224 A	N N	GLY A 302	6.970	29.416	17.854	1.00
	ATOM 21.65	2225 A	CA C	GLY A 302	5.912	29.031	16.932	1.00
	ATOM 20.83	2226 A	C C	GLY A 302	6.292	29.165	15.475	1.00
25	ATOM 21.22	2227 A	O O	GLY A 302	5.574	28.669	14.603	1.00
	ATOM 19.62	2228 A	N N	ASN A 303	7.446	29.787	15.225	1.00
30	ATOM 17.66	2229 A	CA C	ASN A 303	7.981	30.005	13.886	1.00
	ATOM 17.45	2230 A	CB C	ASN A 303	8.705	31.349	13.816	1.00

	ATOM	2231	CG	ASN	A	303	7.872	32.473	14.381	1.00
	20.84	A	C							
	ATOM	2232	OD1	ASN	A	303	6.802	32.779	13.847	1.00
	21.34	A	O							
5	ATOM	2233	ND2	ASN	A	303	8.305	33.033	15.530	1.00
	22.58	A	N							
	ATOM	2234	C	ASN	A	303	8.926	28.922	13.414	1.00
	15.61	A	C							
10	ATOM	2235	O	ASN	A	303	8.831	28.481	12.239	1.00
	13.70	A	O							
	ATOM	2236	N	GLN	A	304	9.841	28.506	14.298	1.00
	14.18	A	N							
	ATOM	2237	CA	GLN	A	304	10.855	27.513	13.946	1.00
	13.13	A	C							
15	ATOM	2238	CB	GLN	A	304	12.235	28.005	14.316	1.00
	13.28	A	C							
	ATOM	2239	CG	GLN	A	304	12.556	27.976	15.811	1.00
	12.80	A	C							
20	ATOM	2240	CD	GLN	A	304	14.020	28.087	16.123	1.00
	11.63	A	C							
	ATOM	2241	OE1	GLN	A	304	14.842	27.582	15.386	1.00
	13.19	A	O							
	ATOM	2242	NE2	GLN	A	304	14.352	28.794	17.223	1.00
	9.76	A	N							
25	ATOM	2243	C	GLN	A	304	10.601	26.128	14.582	1.00
	13.52	A	C							
	ATOM	2244	O	GLN	A	304	11.372	25.208	14.381	1.00
	13.66	A	O							
30	ATOM	2245	N	GLY	A	305	9.537	25.972	15.343	1.00
	12.81	A	N							
	ATOM	2246	CA	GLY	A	305	9.351	24.745	16.101	1.00
	12.54	A	C							

	ATOM	2247	C	GLY	A	305	10.578	24.498	16.970	1.00
	12.99	A	C							
	ATOM	2248	O	GLY	A	305	11.062	25.409	17.633	1.00
	11.36	A	O							
5	ATOM	2249	N	TRP	A	306	11.107	23.272	16.926	1.00
	12.12	A	N							
	ATOM	2250	CA	TRP	A	306	12.286	22.898	17.701	1.00
	12.07	A	C							
10	ATOM	2251	CB	TRP	A	306	12.130	21.473	18.254	1.00
	12.05	A	C							
	ATOM	2252	CG	TRP	A	306	10.866	21.349	19.092	1.00
	11.34	A	C							
	ATOM	2253	CD1	TRP	A	306	9.755	20.611	18.805	1.00
	12.28	A	C							
15	ATOM	2254	NE1	TRP	A	306	8.812	20.766	19.794	1.00
	13.42	A	N							
	ATOM	2255	CE2	TRP	A	306	9.316	21.592	20.761	1.00
	12.23	A	C							
20	ATOM	2256	CD2	TRP	A	306	10.616	21.963	20.359	1.00
	13.78	A	C							
	ATOM	2257	CE3	TRP	A	306	11.344	22.822	21.183	1.00
	13.41	A	C							
	ATOM	2258	CZ3	TRP	A	306	10.780	23.247	22.365	1.00
	12.96	A	C							
25	ATOM	2259	CH2	TRP	A	306	9.488	22.854	22.735	1.00
	13.70	A	C							
	ATOM	2260	CZ2	TRP	A	306	8.744	22.035	21.945	1.00
	14.65	A	C							
30	ATOM	2261	C	TRP	A	306	13.562	23.046	16.890	1.00
	12.73	A	C							
	ATOM	2262	O	TRP	A	306	14.632	22.620	17.318	1.00
	14.46	A	O							

	ATOM	2263	N	GLY	A	307	13.479	23.716	15.741	1.00
	13.10	A	N							
	ATOM	2264	CA	GLY	A	307	14.679	24.111	15.015	1.00
	12.18	A	C							
5	ATOM	2265	C	GLY	A	307	14.871	23.392	13.685	1.00
	11.91	A	C							
	ATOM	2266	O	GLY	A	307	14.008	22.628	13.238	1.00
	11.20	A	O							
10	ATOM	2267	N	ARG	A	308	16.007	23.658	13.046	1.00
	11.60	A	N							
	ATOM	2268	CA	ARG	A	308	16.299	23.167	11.701	1.00
	12.01	A	C							
	ATOM	2269	CB	ARG	A	308	17.153	24.223	10.961	1.00
	12.63	A	C							
15	ATOM	2270	CG	ARG	A	308	17.388	23.970	9.462	1.00
	13.43	A	C							
	ATOM	2271	CD	ARG	A	308	18.284	25.025	8.807	1.00
	13.61	A	C							
20	ATOM	2272	NE	ARG	A	308	19.563	25.031	9.510	1.00
	16.45	A	N							
	ATOM	2273	CZ	ARG	A	308	20.127	26.086	10.086	1.00
	16.43	A	C							
	ATOM	2274	NH1	ARG	A	308	21.257	25.902	10.762	1.00
	14.45	A	N							
25	ATOM	2275	NH2	ARG	A	308	19.660	27.319	9.902	1.00
	13.23	A	N							
	ATOM	2276	C	ARG	A	308	17.055	21.837	11.770	1.00
	12.38	A	C							
30	ATOM	2277	O	ARG	A	308	18.094	21.742	12.434	1.00
	12.82	A	O							
	ATOM	2278	N	VAL	A	309	16.549	20.817	11.080	1.00
	11.99	A	N							

	ATOM	2279	CA	VAL	A	309	17.170	19.498	11.096	1.00
	12.04	A	C							
	ATOM	2280	CB	VAL	A	309	16.553	18.573	10.051	1.00
	11.35	A	C							
5	ATOM	2281	CG1	VAL	A	309	17.354	17.272	9.961	1.00
	11.45	A	C							
	ATOM	2282	CG2	VAL	A	309	15.047	18.335	10.377	1.00
	11.38	A	C							
10	ATOM	2283	C	VAL	A	309	18.667	19.545	10.868	1.00
	12.28	A	C							
	ATOM	2284	O	VAL	A	309	19.148	20.157	9.930	1.00
	11.94	A	O							
	ATOM	2285	N	THR	A	310	19.393	18.904	11.760	1.00
	13.11	A	N							
15	ATOM	2286	CA	THR	A	310	20.854	18.814	11.675	1.00
	12.86	A	C							
	ATOM	2287	CB	THR	A	310	21.471	19.719	12.723	1.00
	13.26	A	C							
20	ATOM	2288	OG1	THR	A	310	21.044	21.090	12.516	1.00
	12.98	A	O							
	ATOM	2289	CG2	THR	A	310	22.962	19.747	12.610	1.00
	13.68	A	C							
	ATOM	2290	C	THR	A	310	21.197	17.347	11.911	1.00
	13.94	A	C							
25	ATOM	2291	O	THR	A	310	21.411	16.896	13.064	1.00
	14.93	A	O							
	ATOM	2292	N	LEU	A	311	21.269	16.601	10.818	1.00
	13.28	A	N							
30	ATOM	2293	CA	LEU	A	311	21.110	15.149	10.879	1.00
	14.11	A	C							
	ATOM	2294	CB	LEU	A	311	20.956	14.589	9.463	1.00
	13.67	A	C							

	ATOM	2295	CG	LEU	A	311	20.879	13.078	9.311	1.00
	13.50	A	C							
	ATOM	2296	CD1	LEU	A	311	19.749	12.522	10.109	1.00
	15.11	A	C							
5	ATOM	2297	CD2	LEU	A	311	20.749	12.688	7.849	1.00
	14.22	A	C							
	ATOM	2298	C	LEU	A	311	22.252	14.455	11.605	1.00
	14.58	A	C							
10	ATOM	2299	O	LEU	A	311	22.012	13.521	12.345	1.00
	14.74	A	O							
	ATOM	2300	N	ASP	A	312	23.483	14.959	11.462	1.00
	15.58	A	N							
	ATOM	2301	CA	ASP	A	312	24.624	14.307	12.111	1.00
	16.68	A	C							
15	ATOM	2302	CB	ASP	A	312	25.984	14.797	11.582	1.00
	16.93	A	C							
	ATOM	2303	CG	ASP	A	312	26.222	16.245	11.822	1.00
	19.05	A	C							
20	ATOM	2304	OD1	ASP	A	312	27.394	16.614	11.755	1.00
	25.94	A	O							
	ATOM	2305	OD2	ASP	A	312	25.348	17.090	12.090	1.00
	18.31	A	O							
	ATOM	2306	C	ASP	A	312	24.560	14.330	13.615	1.00
	16.48	A	C							
25	ATOM	2307	O	ASP	A	312	24.965	13.381	14.241	1.00
	17.40	A	O							
	ATOM	2308	N	LYS	A	313	23.976	15.364	14.202	1.00
	16.32	A	N							
30	ATOM	2309	CA	LYS	A	313	23.755	15.366	15.641	1.00
	16.35	A	C							
	ATOM	2310	CB	LYS	A	313	23.363	16.773	16.130	1.00
	17.66	A	C							

	ATOM	2311	CG	LYS	A	313	24.430	17.848	15.938	1.00
	20.65	A	C							
	ATOM	2312	CD	LYS	A	313	24.735	18.590	17.250	1.00
	28.29	A	C							
5	ATOM	2313	CE	LYS	A	313	25.619	17.746	18.162	1.00
	31.10	A	C							
	ATOM	2314	NZ	LYS	A	313	26.458	18.529	19.131	1.00
	32.31	A	N							
10	ATOM	2315	C	LYS	A	313	22.666	14.379	16.100	1.00
	15.36	A	C							
	ATOM	2316	O	LYS	A	313	22.662	13.968	17.258	1.00
	15.49	A	O							
	ATOM	2317	N	SER	A	314	21.755	14.007	15.212	1.00
	14.12	A	N							
15	ATOM	2318	CA	SER	A	314	20.700	13.047	15.537	1.00
	13.37	A	C							
	ATOM	2319	CB	SER	A	314	19.497	13.217	14.590	1.00
	13.56	A	C							
20	ATOM	2320	OG	SER	A	314	18.889	14.489	14.723	1.00
	11.16	A	O							
	ATOM	2321	C	SER	A	314	21.148	11.581	15.505	1.00
	14.53	A	C							
	ATOM	2322	O	SER	A	314	20.507	10.717	16.112	1.00
	14.30	A	O							
25	ATOM	2323	N	LEU	A	315	22.209	11.285	14.771	1.00
	14.58	A	N							
	ATOM	2324	CA	LEU	A	315	22.563	9.896	14.484	1.00
	15.64	A	C							
30	ATOM	2325	CB	LEU	A	315	23.750	9.824	13.505	1.00
	15.15	A	C							
	ATOM	2326	CG	LEU	A	315	23.506	10.436	12.143	1.00
	14.88	A	C							

	ATOM	2327	CD1	LEU	A	315	24.834	10.445	11.360	1.00
	16.67	A	C							
	ATOM	2328	CD2	LEU	A	315	22.401	9.683	11.411	1.00
	16.28	A	C							
5	ATOM	2329	C	LEU	A	315	22.905	9.095	15.733	1.00
	16.16	A	C							
	ATOM	2330	O	LEU	A	315	22.442	7.956	15.894	1.00
	16.79	A	O							
10	ATOM	2331	N	ASN	A	316	23.692	9.686	16.631	1.00
	17.60	A	N							
	ATOM	2332	CA	ASN	A	316	24.235	8.915	17.749	1.00
	17.99	A	C							
	ATOM	2333	CB	ASN	A	316	25.757	8.837	17.694	1.00
	19.59	A	C							
15	ATOM	2334	CG	ASN	A	316	26.264	7.879	16.601	1.00
	22.56	A	C							
	ATOM	2335	OD1	ASN	A	316	25.736	6.732	16.397	1.00
	21.64	A	O							
20	ATOM	2336	ND2	ASN	A	316	27.321	8.320	15.910	1.00
	23.13	A	N							
	ATOM	2337	C	ASN	A	316	23.732	9.396	19.116	1.00
	17.61	A	C							
	ATOM	2338	O	ASN	A	316	24.390	9.212	20.152	1.00
	15.93	A	O							
25	ATOM	2339	N	VAL	A	317	22.505	9.912	19.123	1.00
	15.75	A	N							
	ATOM	2340	CA	VAL	A	317	21.820	10.220	20.389	1.00
	15.40	A	C							
30	ATOM	2341	CB	VAL	A	317	20.360	10.675	20.150	1.00
	15.21	A	C							
	ATOM	2342	CG1	VAL	A	317	20.335	11.940	19.350	1.00
	16.28	A	C							

	ATOM	2343	CG2	VAL	A	317	19.547	9.600	19.458	1.00
	16.07	A	C							
	ATOM	2344	C	VAL	A	317	21.803	8.995	21.323	1.00
	14.67	A	C							
5	ATOM	2345	O	VAL	A	317	21.675	7.864	20.868	1.00
	14.77	A	O							
	ATOM	2346	N	ALA	A	318	21.932	9.225	22.627	1.00
	13.95	A	N							
10	ATOM	2347	CA	ALA	A	318	21.623	8.186	23.603	1.00
	13.64	A	C							
	ATOM	2348	CB	ALA	A	318	22.196	8.523	24.940	1.00
	13.50	A	C							
	ATOM	2349	C	ALA	A	318	20.087	8.130	23.652	1.00
	13.19	A	C							
15	ATOM	2350	O	ALA	A	318	19.416	9.168	23.498	1.00
	13.46	A	O							
	ATOM	2351	N	PHE	A	319	19.512	6.952	23.853	1.00
	12.88	A	N							
20	ATOM	2352	CA	PHE	A	319	18.076	6.824	23.633	1.00
	12.66	A	C							
	ATOM	2353	CB	PHE	A	319	17.815	6.531	22.137	1.00
	12.79	A	C							
	ATOM	2354	CG	PHE	A	319	18.267	5.158	21.700	1.00
	14.03	A	C							
25	ATOM	2355	CD1	PHE	A	319	19.504	4.980	21.107	1.00
	12.44	A	C							
	ATOM	2356	CE1	PHE	A	319	19.930	3.725	20.718	1.00
	15.58	A	C							
30	ATOM	2357	CZ	PHE	A	319	19.115	2.619	20.921	1.00
	15.26	A	C							
	ATOM	2358	CE2	PHE	A	319	17.887	2.777	21.524	1.00
	14.77	A	C							

	ATOM 15.05	2359 A	CD2 C	PHE A 319	17.461	4.047	21.905	1.00
	ATOM 12.38	2360 A	C C	PHE A 319	17.349	5.799	24.461	1.00
5	ATOM 12.11	2361 A	O O	PHE A 319	17.947	4.918	25.055	1.00
	ATOM 12.04	2362 A	N N	VAL A 320	16.032	5.947	24.488	1.00
10	ATOM 12.42	2363 A	CA C	VAL A 320	15.125	4.909	24.949	1.00
	ATOM 13.15	2364 A	CB C	VAL A 320	14.391	5.323	26.252	1.00
	ATOM 13.46	2365 A	CG1 C	VAL A 320	13.237	4.331	26.589	1.00
15	ATOM 13.91	2366 A	CG2 C	VAL A 320	15.401	5.395	27.416	1.00
	ATOM 11.88	2367 A	C C	VAL A 320	14.137	4.758	23.802	1.00
20	ATOM 10.13	2368 A	O O	VAL A 320	13.668	5.749	23.271	1.00
	ATOM 11.82	2369 A	N N	ASN A 321	13.824	3.520	23.441	1.00
	ATOM 11.75	2370 A	CA C	ASN A 321	13.018	3.205	22.261	1.00
25	ATOM 11.75	2371 A	CB C	ASN A 321	13.858	2.323	21.313	1.00
	ATOM 12.10	2372 A	CG C	ASN A 321	13.214	2.117	19.944	1.00
30	ATOM 12.86	2373 A	OD1 O	ASN A 321	12.506	3.005	19.437	1.00
	ATOM 10.43	2374 A	ND2 N	ASN A 321	13.451	0.919	19.328	1.00

	ATOM	2375	C	ASN	A	321	11.711	2.463	22.637	1.00
	12.63	A	C							
	ATOM	2376	O	ASN	A	321	11.509	1.311	22.260	1.00
	12.41	A	O							
5	ATOM	2377	N	GLU	A	322	10.835	3.130	23.380	1.00
	12.99	A	N							
	ATOM	2378	CA	GLU	A	322	9.542	2.552	23.760	1.00
	13.23	A	C							
10	ATOM	2379	CB	GLU	A	322	8.601	2.415	22.528	1.00
	13.10	A	C							
	ATOM	2380	CG	GLU	A	322	8.146	3.794	22.013	1.00
	12.18	A	C							
	ATOM	2381	CD	GLU	A	322	7.072	3.781	20.933	1.00
	14.48	A	C							
15	ATOM	2382	OE1	GLU	A	322	6.747	4.884	20.429	1.00
	15.20	A	O							
	ATOM	2383	OE2	GLU	A	322	6.564	2.690	20.588	1.00
	14.00	A	O							
20	ATOM	2384	C	GLU	A	322	9.654	1.239	24.556	1.00
	14.04	A	C							
	ATOM	2385	O	GLU	A	322	8.778	0.385	24.468	1.00
	12.70	A	O							
	ATOM	2386	N	THR	A	323	10.688	1.122	25.387	1.00
	13.33	A	N							
25	ATOM	2387	CA	THR	A	323	10.907	-0.101	26.145	1.00
	14.72	A	C							
	ATOM	2388	CB	THR	A	323	12.375	-0.466	26.173	1.00
	14.45	A	C							
30	ATOM	2389	OG1	THR	A	323	13.168	0.721	26.401	1.00
	16.74	A	O							
	ATOM	2390	CG2	THR	A	323	12.813	-0.980	24.810	1.00
	15.39	A	C							

	ATOM	2391	C	THR	A	323	10.397	-0.045	27.589	1.00
	15.63	A	C							
	ATOM	2392	O	THR	A	323	10.572	-1.011	28.319	1.00
	14.71	A	O							
5	ATOM	2393	N	SER	A	324	9.796	1.073	28.002	1.00
	15.41	A	N							
	ATOM	2394	CA	SER	A	324	9.176	1.159	29.341	1.00
	15.78	A	C							
10	ATOM	2395	CB	SER	A	324	10.008	2.045	30.272	1.00
	15.94	A	C							
	ATOM	2396	OG	SER	A	324	11.281	1.460	30.594	1.00
	17.86	A	O							
	ATOM	2397	C	SER	A	324	7.739	1.723	29.257	1.00
	15.74	A	C							
15	ATOM	2398	O	SER	A	324	7.558	2.937	29.315	1.00
	15.93	A	O							
	ATOM	2399	N	PRO	A	325	6.729	0.864	29.118	1.00
	16.08	A	N							
20	ATOM	2400	CA	PRO	A	325	5.326	1.306	29.170	1.00
	17.17	A	C							
	ATOM	2401	CB	PRO	A	325	4.525	0.035	28.823	1.00
	17.76	A	C							
	ATOM	2402	CG	PRO	A	325	5.454	-1.106	29.084	1.00
	17.45	A	C							
25	ATOM	2403	CD	PRO	A	325	6.845	-0.585	28.885	1.00
	16.38	A	C							
	ATOM	2404	C	PRO	A	325	4.926	1.815	30.548	1.00
	17.68	A	C							
30	ATOM	2405	O	PRO	A	325	5.277	1.211	31.553	1.00
	18.68	A	O							
	ATOM	2406	N	LEU	A	326	4.204	2.916	30.596	1.00
	18.30	A	N							

	ATOM	2407	CA	LEU	A	326	3.796	3.491	31.871	1.00
	18.53	A	C							
	ATOM	2408	CB	LEU	A	326	4.410	4.890	32.059	1.00
	18.37	A	C							
5	ATOM	2409	CG	LEU	A	326	5.938	5.027	32.161	1.00
	19.30	A	C							
	ATOM	2410	CD1	LEU	A	326	6.350	6.502	32.200	1.00
	20.03	A	C							
10	ATOM	2411	CD2	LEU	A	326	6.471	4.338	33.387	1.00
	17.55	A	C							
	ATOM	2412	C	LEU	A	326	2.287	3.605	31.982	1.00
	19.08	A	C							
	ATOM	2413	O	LEU	A	326	1.589	3.926	30.989	1.00
	18.42	A	O							
15	ATOM	2414	N	SER	A	327	1.810	3.326	33.201	1.00
	19.13	A	N							
	ATOM	2415	CA	SER	A	327	0.438	3.607	33.672	1.00
	19.58	A	C							
20	ATOM	2416	CB	SER	A	327	-0.123	2.391	34.397	1.00
	19.04	A	C							
	ATOM	2417	OG	SER	A	327	-0.176	1.357	33.434	1.00
	19.38	A	O							
	ATOM	2418	C	SER	A	327	0.558	4.902	34.476	1.00
	19.58	A	C							
25	ATOM	2419	O	SER	A	327	1.609	5.154	35.075	1.00
	18.88	A	O							
	ATOM	2420	N	THR	A	328	-0.505	5.696	34.595	1.00
	20.38	A	N							
30	ATOM	2421	CA	THR	A	328	-0.861	6.454	35.789	1.00
	19.96	A	C							
	ATOM	2422	CB	THR	A	328	-2.343	6.678	35.951	1.00
	20.43	A	C							

	ATOM	2423	OG1	THR	A	328	-2.870	7.047	34.681	1.00
	20.32	A	O							
	ATOM	2424	CG2	THR	A	328	-2.602	7.922	36.842	1.00
	21.84	A	C							
5	ATOM	2425	C	THR	A	328	-0.102	6.262	37.084	1.00
	19.51	A	C							
	ATOM	2426	O	THR	A	328	-0.223	5.222	37.739	1.00
	19.59	A	O							
10	ATOM	2427	N	SER	A	329	0.732	7.268	37.356	1.00
	18.40	A	N							
	ATOM	2428	CA	SER	A	329	1.489	7.464	38.588	1.00
	19.19	A	C							
	ATOM	2429	CB	BSER	A	329	0.679	7.017	39.818	0.50
	19.34	A	C							
15	ATOM	2430	CB	ASER	A	329	0.629	7.141	39.833	0.50
	19.52	A	C							
	ATOM	2431	OG	BSER	A	329	0.653	5.599	39.887	0.50
	18.73	A	O							
20	ATOM	2432	OG	ASER	A	329	-0.672	7.722	39.718	0.50
	20.52	A	O							
	ATOM	2433	C	SER	A	329	2.792	6.686	38.588	1.00
	18.71	A	C							
	ATOM	2434	O	SER	A	329	3.533	6.753	39.550	1.00
	18.11	A	O							
25	ATOM	2435	N	GLN	A	330	3.066	5.936	37.524	1.00
	17.70	A	N							
	ATOM	2436	CA	GLN	A	330	4.339	5.250	37.420	1.00
	17.71	A	C							
30	ATOM	2437	CB	GLN	A	330	4.193	4.001	36.566	1.00
	17.37	A	C							
	ATOM	2438	CG	GLN	A	330	3.233	2.970	37.168	1.00
	17.60	A	C							

	ATOM	2439	CD	GLN	A	330	3.116	1.700	36.319	1.00
	18.11	A	C							
	ATOM	2440	OE1	GLN	A	330	3.305	1.763	35.119	1.00
	16.08	A	O							
5	ATOM	2441	NE2	GLN	A	330	2.762	0.550	36.952	1.00
	15.56	A	N							
	ATOM	2442	C	GLN	A	330	5.401	6.195	36.837	1.00
	18.14	A	C							
10	ATOM	2443	O	GLN	A	330	5.103	7.308	36.423	1.00
	18.07	A	O							
	ATOM	2444	N	LYS	A	331	6.643	5.750	36.842	1.00
	18.66	A	N							
	ATOM	2445	CA	LYS	A	331	7.710	6.524	36.276	1.00
	19.23	A	C							
15	ATOM	2446	CB	LYS	A	331	8.229	7.550	37.289	1.00
	20.19	A	C							
	ATOM	2447	CG	LYS	A	331	8.972	6.934	38.450	1.00
	23.65	A	C							
20	ATOM	2448	CD	LYS	A	331	9.071	7.912	39.625	1.00
	28.70	A	C							
	ATOM	2449	CE	LYS	A	331	9.954	7.332	40.754	1.00
	31.64	A	C							
	ATOM	2450	NZ	LYS	A	331	10.409	8.388	41.729	1.00
	34.93	A	N							
25	ATOM	2451	C	LYS	A	331	8.804	5.589	35.820	1.00
	18.87	A	C							
	ATOM	2452	O	LYS	A	331	8.887	4.410	36.261	1.00
	18.18	A	O							
30	ATOM	2453	N	ALA	A	332	9.587	6.091	34.873	1.00
	17.37	A	N							
	ATOM	2454	CA	ALA	A	332	10.797	5.406	34.412	1.00
	17.82	A	C							

	ATOM	2455	CB	ALA	A	332	10.689	5.068	32.941	1.00
	17.06	A	C							
	ATOM	2456	C	ALA	A	332	11.991	6.324	34.650	1.00
	17.33	A	C							
5	ATOM	2457	O	ALA	A	332	11.999	7.480	34.213	1.00
	16.52	A	O							
	ATOM	2458	N	THR	A	333	13.005	5.805	35.325	1.00
	17.85	A	N							
10	ATOM	2459	CA	THR	A	333	14.108	6.643	35.784	1.00
	17.61	A	C							
	ATOM	2460	CB	THR	A	333	14.194	6.544	37.304	1.00
	18.03	A	C							
	ATOM	2461	OG1	THR	A	333	12.956	6.966	37.902	1.00
	19.93	A	O							
15	ATOM	2462	CG2	THR	A	333	15.234	7.490	37.851	1.00
	18.18	A	C							
	ATOM	2463	C	THR	A	333	15.410	6.186	35.159	1.00
	17.36	A	C							
20	ATOM	2464	O	THR	A	333	15.727	4.987	35.162	1.00
	17.40	A	O							
	ATOM	2465	N	TYR	A	334	16.176	7.135	34.628	1.00
	17.05	A	N							
	ATOM	2466	CA	TYR	A	334	17.437	6.840	33.986	1.00
	17.42	A	C							
25	ATOM	2467	CB	TYR	A	334	17.308	6.975	32.464	1.00
	16.94	A	C							
	ATOM	2468	CG	TYR	A	334	16.144	6.230	31.860	1.00
	16.41	A	C							
30	ATOM	2469	CD1	TYR	A	334	16.273	4.891	31.458	1.00
	14.43	A	C							
	ATOM	2470	CE1	TYR	A	334	15.205	4.205	30.912	1.00
	14.63	A	C							

	ATOM	2471	CZ	TYR	A	334	13.977	4.846	30.772	1.00
	15.02	A	C							
	ATOM	2472	OH	TYR	A	334	12.929	4.188	30.216	1.00
	16.23	A	O							
5	ATOM	2473	CE2	TYR	A	334	13.819	6.147	31.153	1.00
	15.62	A	C							
	ATOM	2474	CD2	TYR	A	334	14.907	6.835	31.718	1.00
	16.76	A	C							
10	ATOM	2475	C	TYR	A	334	18.542	7.767	34.455	1.00
	17.66	A	C							
	ATOM	2476	O	TYR	A	334	18.279	8.840	34.991	1.00
	16.79	A	O							
	ATOM	2477	N	SER	A	335	19.783	7.375	34.169	1.00
	17.44	A	N							
15	ATOM	2478	CA	SER	A	335	20.939	8.218	34.442	1.00
	18.62	A	C							
	ATOM	2479	CB	BSER	A	335	21.879	7.537	35.433	0.50
	18.54	A	C							
20	ATOM	2480	CB	ASER	A	335	21.916	7.518	35.393	0.50
	18.59	A	C							
	ATOM	2481	OG	BSER	A	335	22.697	6.585	34.783	0.50
	18.97	A	O							
	ATOM	2482	OG	ASER	A	335	21.316	7.174	36.629	0.50
	19.43	A	O							
25	ATOM	2483	C	SER	A	335	21.680	8.538	33.128	1.00
	18.52	A	C							
	ATOM	2484	O	SER	A	335	21.698	7.720	32.221	1.00
	18.14	A	O							
30	ATOM	2485	N	PHE	A	336	22.298	9.715	33.049	1.00
	17.92	A	N							
	ATOM	2486	CA	PHE	A	336	23.115	10.092	31.911	1.00
	18.36	A	C							

	ATOM	2487	CB	PHE	A	336	22.324	10.949	30.900	1.00
	18.52	A	C							
	ATOM	2488	CG	PHE	A	336	23.150	11.401	29.753	1.00
	17.47	A	C							
5	ATOM	2489	CD1	PHE	A	336	23.733	12.667	29.739	1.00
	18.88	A	C							
	ATOM	2490	CE1	PHE	A	336	24.529	13.067	28.654	1.00
	18.14	A	C							
10	ATOM	2491	CZ	PHE	A	336	24.749	12.198	27.591	1.00
	18.35	A	C							
	ATOM	2492	CE2	PHE	A	336	24.174	10.936	27.601	1.00
	18.49	A	C							
	ATOM	2493	CD2	PHE	A	336	23.386	10.543	28.681	1.00
	19.03	A	C							
15	ATOM	2494	C	PHE	A	336	24.314	10.898	32.403	1.00
	18.74	A	C							
	ATOM	2495	O	PHE	A	336	24.159	11.810	33.195	1.00
	18.98	A	O							
20	ATOM	2496	N	THR	A	337	25.504	10.547	31.938	1.00
	19.28	A	N							
	ATOM	2497	CA	THR	A	337	26.733	11.219	32.364	1.00
	19.77	A	C							
	ATOM	2498	CB	THR	A	337	27.879	10.201	32.343	1.00
	20.11	A	C							
25	ATOM	2499	OG1	THR	A	337	27.609	9.175	33.321	1.00
	19.75	A	O							
	ATOM	2500	CG2	THR	A	337	29.159	10.857	32.796	1.00
	21.58	A	C							
30	ATOM	2501	C	THR	A	337	27.096	12.369	31.440	1.00
	20.14	A	C							
	ATOM	2502	O	THR	A	337	27.266	12.163	30.253	1.00
	20.10	A	O							

	ATOM	2503	N	ALA	A	338	27.181	13.571	32.000	1.00
	19.74	A	N							
	ATOM	2504	CA	ALA	A	338	27.487	14.793	31.259	1.00
	20.23	A	C							
5	ATOM	2505	CB	ALA	A	338	26.468	15.858	31.588	1.00
	19.43	A	C							
	ATOM	2506	C	ALA	A	338	28.881	15.292	31.633	1.00
	20.94	A	C							
10	ATOM	2507	O	ALA	A	338	29.389	14.991	32.710	1.00
	19.43	A	O							
	ATOM	2508	N	GLN	A	339	29.503	16.042	30.741	1.00
	22.51	A	N							
	ATOM	2509	CA	GLN	A	339	30.750	16.711	31.070	1.00
	23.12	A	C							
15	ATOM	2510	CB	GLN	A	339	31.893	16.162	30.230	1.00
	24.34	A	C							
	ATOM	2511	CG	GLN	A	339	32.591	14.904	30.726	1.00
	29.11	A	C							
20	ATOM	2512	CD	GLN	A	339	34.116	14.923	30.437	1.00
	36.99	A	C							
	ATOM	2513	OE1	GLN	A	339	34.841	13.991	30.825	1.00
	41.39	A	O							
	ATOM	2514	NE2	GLN	A	339	34.597	15.995	29.778	1.00
	36.90	A	N							
25	ATOM	2515	C	GLN	A	339	30.543	18.167	30.722	1.00
	23.27	A	C							
	ATOM	2516	O	GLN	A	339	30.034	18.485	29.641	1.00
	23.02	A	O							
30	ATOM	2517	N	ALA	A	340	30.922	19.061	31.619	1.00
	22.60	A	N							
	ATOM	2518	CA	ALA	A	340	30.793	20.492	31.347	1.00
	22.71	A	C							

	ATOM	2519	CB	ALA	A	340	31.311	21.296	32.535	1.00
	22.84	A	C							
	ATOM	2520	C	ALA	A	340	31.524	20.916	30.076	1.00
	22.30	A	C							
5	ATOM	2521	O	ALA	A	340	32.474	20.270	29.650	1.00
	22.44	A	O							
	ATOM	2522	N	GLY	A	341	31.063	21.996	29.455	1.00
	23.38	A	N							
10	ATOM	2523	CA	GLY	A	341	31.738	22.554	28.283	1.00
	23.73	A	C							
	ATOM	2524	C	GLY	A	341	30.989	22.425	26.956	1.00
	24.15	A	C							
	ATOM	2525	O	GLY	A	341	31.457	22.902	25.917	1.00
	24.10	A	O							
15	ATOM	2526	N	LYS	A	342	29.829	21.774	26.970	1.00
	24.05	A	N							
	ATOM	2527	CA	LYS	A	342	29.038	21.637	25.743	1.00
	24.39	A	C							
20	ATOM	2528	CB	LYS	A	342	29.643	20.545	24.861	1.00
	25.08	A	C							
	ATOM	2529	CG	LYS	A	342	29.610	19.148	25.496	1.00
	27.13	A	C							
	ATOM	2530	CD	LYS	A	342	30.471	18.173	24.723	1.00
	29.40	A	C							
25	ATOM	2531	CE	LYS	A	342	30.254	16.725	25.182	1.00
	29.96	A	C							
	ATOM	2532	NZ	LYS	A	342	30.738	16.515	26.576	1.00
	32.09	A	N							
30	ATOM	2533	C	LYS	A	342	27.552	21.373	26.058	1.00
	23.40	A	C							
	ATOM	2534	O	LYS	A	342	27.220	20.861	27.144	1.00
	23.54	A	O							

	ATOM 22.09	2535 A	N N	PRO A 343	26.652	21.755	25.151	1.00
	ATOM 21.01	2536 A	CA C	PRO A 343	25.219	21.683	25.450	1.00
5	ATOM 21.58	2537 A	CB C	PRO A 343	24.557	22.206	24.163	1.00
	ATOM 22.06	2538 A	CG C	PRO A 343	25.613	23.026	23.492	1.00
10	ATOM 22.30	2539 A	CD C	PRO A 343	26.902	22.348	23.820	1.00
	ATOM 19.35	2540 A	C C	PRO A 343	24.729	20.279	25.756	1.00
	ATOM 17.82	2541 A	O O	PRO A 343	25.311	19.298	25.317	1.00
15	ATOM 18.12	2542 A	N N	LEU A 344	23.645	20.223	26.521	1.00
	ATOM 17.07	2543 A	CA C	LEU A 344	22.945	18.988	26.790	1.00
20	ATOM 17.12	2544 A	CB C	LEU A 344	23.019	18.680	28.278	1.00
	ATOM 16.96	2545 A	CG C	LEU A 344	22.250	17.476	28.788	1.00
	ATOM 16.29	2546 A	CD1 C	LEU A 344	22.743	16.188	28.128	1.00
25	ATOM 17.28	2547 A	CD2 C	LEU A 344	22.399	17.414	30.336	1.00
	ATOM 16.41	2548 A	C C	LEU A 344	21.484	19.168	26.360	1.00
30	ATOM 17.49	2549 A	O O	LEU A 344	20.814	20.029	26.870	1.00
	ATOM 15.23	2550 A	N N	LYS A 345	21.013	18.336	25.440	1.00

	ATOM	2551	CA	LYS	A	345	19.638	18.405	24.943	1.00
	14.51	A	C							
	ATOM	2552	CB	LYS	A	345	19.644	18.807	23.474	1.00
	14.84	A	C							
5	ATOM	2553	CG	LYS	A	345	20.104	20.235	23.248	1.00
	13.82	A	C							
	ATOM	2554	CD	LYS	A	345	19.987	20.664	21.795	1.00
	16.32	A	C							
10	ATOM	2555	CE	LYS	A	345	18.599	21.126	21.423	1.00
	13.96	A	C							
	ATOM	2556	NZ	LYS	A	345	18.513	21.491	19.992	1.00
	17.70	A	N							
	ATOM	2557	C	LYS	A	345	18.929	17.066	25.135	1.00
	14.25	A	C							
15	ATOM	2558	O	LYS	A	345	19.399	16.033	24.658	1.00
	14.33	A	O							
	ATOM	2559	N	ILE	A	346	17.821	17.084	25.870	1.00
	13.41	A	N							
20	ATOM	2560	CA	ILE	A	346	17.031	15.888	26.116	1.00
	13.30	A	C							
	ATOM	2561	CB	ILE	A	346	16.983	15.589	27.619	1.00
	13.25	A	C							
	ATOM	2562	CG1	ILE	A	346	18.376	15.444	28.197	1.00
	13.74	A	C							
25	ATOM	2563	CD1	ILE	A	346	18.459	15.807	29.637	1.00
	15.75	A	C							
	ATOM	2564	CG2	ILE	A	346	16.180	14.329	27.874	1.00
	13.54	A	C							
30	ATOM	2565	C	ILE	A	346	15.598	16.084	25.601	1.00
	13.26	A	C							
	ATOM	2566	O	ILE	A	346	14.900	17.010	26.020	1.00
	13.15	A	O							

	ATOM	2567	N	SER	A	347	15.159	15.197	24.714	1.00
	12.65	A	N							
	ATOM	2568	CA	SER	A	347	13.795	15.262	24.172	1.00
	12.47	A	C							
5	ATOM	2569	CB	BSER	A	347	13.838	15.473	22.654	0.35
	12.36	A	C							
	ATOM	2570	CB	ASER	A	347	13.813	15.524	22.662	0.65
	12.73	A	C							
10	ATOM	2571	OG	BSER	A	347	12.569	15.297	22.042	0.35
	10.59	A	O							
	ATOM	2572	OG	ASER	A	347	14.655	16.634	22.329	0.65
	13.18	A	O							
	ATOM	2573	C	SER	A	347	13.032	13.983	24.491	1.00
	11.72	A	C							
15	ATOM	2574	O	SER	A	347	13.511	12.881	24.219	1.00
	11.81	A	O							
	ATOM	2575	N	LEU	A	348	11.830	14.165	25.026	1.00
	11.03	A	N							
20	ATOM	2576	CA	LEU	A	348	10.864	13.121	25.289	1.00
	10.93	A	C							
	ATOM	2577	CB	LEU	A	348	10.302	13.274	26.706	1.00
	10.96	A	C							
	ATOM	2578	CG	LEU	A	348	9.054	12.502	27.097	1.00
	10.80	A	C							
25	ATOM	2579	CD1	LEU	A	348	9.396	11.029	27.180	1.00
	13.05	A	C							
	ATOM	2580	CD2	LEU	A	348	8.542	12.969	28.443	1.00
	12.50	A	C							
30	ATOM	2581	C	LEU	A	348	9.735	13.231	24.287	1.00
	11.09	A	C							
	ATOM	2582	O	LEU	A	348	9.152	14.302	24.140	1.00
	12.01	A	O							

	ATOM	2583	N	VAL	A	349	9.389	12.127	23.631	1.00
	10.58	A	N							
	ATOM	2584	CA	VAL	A	349	8.327	12.142	22.638	1.00
	11.32	A	C							
5	ATOM	2585	CB	VAL	A	349	8.876	12.223	21.185	1.00
	11.27	A	C							
	ATOM	2586	CG1	VAL	A	349	7.745	12.102	20.169	1.00
	12.19	A	C							
10	ATOM	2587	CG2	VAL	A	349	9.653	13.511	20.961	1.00
	11.93	A	C							
	ATOM	2588	C	VAL	A	349	7.522	10.873	22.768	1.00
	11.68	A	C							
	ATOM	2589	O	VAL	A	349	8.099	9.802	22.870	1.00
	12.43	A	O							
15	ATOM	2590	N	TRP	A	350	6.200	10.993	22.768	1.00
	11.69	A	N							
	ATOM	2591	CA	TRP	A	350	5.354	9.813	22.662	1.00
	11.48	A	C							
20	ATOM	2592	CB	TRP	A	350	4.719	9.442	24.002	1.00
	11.79	A	C							
	ATOM	2593	CG	TRP	A	350	3.822	10.448	24.628	1.00
	11.11	A	C							
	ATOM	2594	CD1	TRP	A	350	2.457	10.378	24.720	1.00
	12.11	A	C							
25	ATOM	2595	NE1	TRP	A	350	1.961	11.469	25.386	1.00
	12.24	A	N							
	ATOM	2596	CE2	TRP	A	350	3.015	12.262	25.774	1.00
	13.16	A	C							
30	ATOM	2597	CD2	TRP	A	350	4.208	11.640	25.311	1.00
	13.33	A	C							
	ATOM	2598	CE3	TRP	A	350	5.440	12.249	25.593	1.00
	12.51	A	C							

	ATOM	2599	CZ3	TRP	A	350	5.444	13.449	26.311	1.00
	13.31	A	C							
	ATOM	2600	CH2	TRP	A	350	4.248	14.022	26.767	1.00
	13.75	A	C							
5	ATOM	2601	CZ2	TRP	A	350	3.022	13.427	26.507	1.00
	13.59	A	C							
	ATOM	2602	C	TRP	A	350	4.314	9.883	21.536	1.00
	11.50	A	C							
10	ATOM	2603	O	TRP	A	350	3.905	10.953	21.077	1.00
	11.90	A	O							
	ATOM	2604	N	SER	A	351	3.921	8.707	21.071	1.00
	11.83	A	N							
	ATOM	2605	CA	SER	A	351	2.889	8.607	20.070	1.00
	12.20	A	C							
15	ATOM	2606	CB	SER	A	351	3.182	7.496	19.070	1.00
	12.11	A	C							
	ATOM	2607	OG	SER	A	351	4.356	7.772	18.310	1.00
	11.85	A	O							
20	ATOM	2608	C	SER	A	351	1.636	8.378	20.884	1.00
	12.65	A	C							
	ATOM	2609	O	SER	A	351	1.360	7.285	21.375	1.00
	12.72	A	O							
	ATOM	2610	N	ASP	A	352	0.947	9.477	21.115	1.00
	13.75	A	N							
25	ATOM	2611	CA	ASP	A	352	-0.205	9.532	21.982	1.00
	14.48	A	C							
	ATOM	2612	CB	ASP	A	352	-0.508	11.003	22.225	1.00
	14.84	A	C							
30	ATOM	2613	CG	ASP	A	352	-1.480	11.251	23.385	1.00
	16.70	A	C							
	ATOM	2614	OD1	ASP	A	352	-1.655	10.366	24.260	1.00
	15.50	A	O							

	ATOM	2615	OD2	ASP	A	352	-2.115	12.329	23.458	1.00
	15.19	A	O							
	ATOM	2616	C	ASP	A	352	-1.427	8.842	21.389	1.00
	15.19	A	C							
5	ATOM	2617	O	ASP	A	352	-1.569	8.678	20.155	1.00
	15.52	A	O							
	ATOM	2618	N	ALA	A	353	-2.331	8.434	22.273	1.00
	15.26	A	N							
	ATOM	2619	CA	ALA	A	353	-3.689	8.074	21.853	1.00
10	15.65	A	C							
	ATOM	2620	CB	ALA	A	353	-4.526	7.801	23.051	1.00
	15.59	A	C							
	ATOM	2621	C	ALA	A	353	-4.325	9.197	21.018	1.00
	15.42	A	C							
15	ATOM	2622	O	ALA	A	353	-4.076	10.374	21.264	1.00
	15.11	A	O							
	ATOM	2623	N	PRO	A	354	-5.157	8.840	20.041	1.00
	16.50	A	N							
	ATOM	2624	CA	PRO	A	354	-5.858	9.841	19.235	1.00
20	16.92	A	C							
	ATOM	2625	CB	PRO	A	354	-6.724	9.003	18.287	1.00
	17.36	A	C							
	ATOM	2626	CG	PRO	A	354	-6.790	7.646	18.897	1.00
	17.45	A	C							
25	ATOM	2627	CD	PRO	A	354	-5.499	7.456	19.640	1.00
	16.81	A	C							
	ATOM	2628	C	PRO	A	354	-6.723	10.771	20.073	1.00
	18.05	A	C							
	ATOM	2629	O	PRO	A	354	-7.420	10.293	20.957	1.00
30	17.51	A	O							
	ATOM	2630	N	GLY	A	355	-6.629	12.074	19.819	1.00
	18.60	A	N							

	ATOM	2631	CA	GLY	A	355	-7.392	13.071	20.527	1.00
	20.06	A	C							
	ATOM	2632	C	GLY	A	355	-8.773	13.285	19.936	1.00
	21.21	A	C							
5	ATOM	2633	O	GLY	A	355	-9.095	12.758	18.880	1.00
	22.41	A	O							
	ATOM	2634	N	SER	A	356	-9.598	14.050	20.628	1.00
	22.87	A	N							
10	ATOM	2635	CA	SER	A	356	-10.939	14.377	20.145	1.00
	23.97	A	C							
	ATOM	2636	CB	SER	A	356	-11.924	14.555	21.319	1.00
	24.97	A	C							
	ATOM	2637	OG	SER	A	356	-12.771	15.696	21.117	1.00
	26.85	A	O							
15	ATOM	2638	C	SER	A	356	-10.901	15.654	19.320	1.00
	24.04	A	C							
	ATOM	2639	O	SER	A	356	-10.151	16.583	19.635	1.00
	23.54	A	O							
20	ATOM	2640	N	THR	A	357	-11.714	15.684	18.261	1.00
	24.61	A	N							
	ATOM	2641	CA	THR	A	357	-11.826	16.846	17.396	1.00
	25.58	A	C							
	ATOM	2642	CB	THR	A	357	-12.423	16.436	16.032	1.00
	25.86	A	C							
25	ATOM	2643	OG1	THR	A	357	-13.673	15.748	16.218	1.00
	25.91	A	O							
	ATOM	2644	CG2	THR	A	357	-11.534	15.392	15.334	1.00
	25.30	A	C							
30	ATOM	2645	C	THR	A	357	-12.687	17.982	18.000	1.00
	26.58	A	C							
	ATOM	2646	O	THR	A	357	-12.812	19.035	17.398	1.00
	26.22	A	O							

	ATOM	2647	N	THR	A	358	-13.276	17.771	19.175	1.00
	27.59	A	N							
	ATOM	2648	CA	THR	A	358	-14.113	18.816	19.779	1.00
	28.37	A	C							
5	ATOM	2649	CB	THR	A	358	-15.575	18.335	19.938	1.00
	28.27	A	C							
	ATOM	2650	OG1	THR	A	358	-15.606	17.065	20.606	1.00
	28.60	A	O							
10	ATOM	2651	CG2	THR	A	358	-16.192	18.066	18.587	1.00
	27.97	A	C							
	ATOM	2652	C	THR	A	358	-13.605	19.321	21.118	1.00
	28.71	A	C							
	ATOM	2653	O	THR	A	358	-13.954	20.424	21.524	1.00
	29.22	A	O							
15	ATOM	2654	N	ALA	A	359	-12.758	18.548	21.795	1.00
	28.63	A	N							
	ATOM	2655	CA	ALA	A	359	-12.311	18.925	23.133	1.00
	27.94	A	C							
20	ATOM	2656	CB	ALA	A	359	-11.668	17.739	23.814	1.00
	28.64	A	C							
	ATOM	2657	C	ALA	A	359	-11.349	20.100	23.099	1.00
	27.98	A	C							
	ATOM	2658	O	ALA	A	359	-10.738	20.393	22.060	1.00
	27.61	A	O							
25	ATOM	2659	N	SER	A	360	-11.213	20.785	24.241	1.00
	27.18	A	N							
	ATOM	2660	CA	SER	A	360	-10.301	21.916	24.344	1.00
	27.00	A	C							
30	ATOM	2661	CB	SER	A	360	-10.351	22.564	25.737	1.00
	27.57	A	C							
	ATOM	2662	OG	SER	A	360	-11.688	22.840	26.125	1.00
	31.54	A	O							

	ATOM	2663	C	SER A 360	-8.858	21.485	24.060	1.00
	25.14	A	C					
	ATOM	2664	O	SER A 360	-8.115	22.230	23.446	1.00
	24.27	A	O					
5	ATOM	2665	N	LEU A 361	-8.478	20.307	24.553	1.00
	23.74	A	N					
	ATOM	2666	CA	LEU A 361	-7.100	19.812	24.453	1.00
	23.54	A	C					
10	ATOM	2667	CB	LEU A 361	-6.480	19.583	25.840	1.00
	23.87	A	C					
	ATOM	2668	CG	LEU A 361	-6.119	20.802	26.702	1.00
	27.30	A	C					
	ATOM	2669	CD1	LEU A 361	-5.434	20.335	27.980	1.00
	28.61	A	C					
15	ATOM	2670	CD2	LEU A 361	-5.217	21.827	25.975	1.00
	28.84	A	C					
	ATOM	2671	C	LEU A 361	-7.097	18.493	23.701	1.00
	21.78	A	C					
20	ATOM	2672	O	LEU A 361	-7.942	17.611	23.961	1.00
	21.73	A	O					
	ATOM	2673	N	THR A 362	-6.141	18.325	22.790	1.00
	19.81	A	N					
	ATOM	2674	CA	THR A 362	-6.053	17.058	22.066	1.00
	18.76	A	C					
25	ATOM	2675	CB	THR A 362	-5.433	17.230	20.657	1.00
	19.42	A	C					
	ATOM	2676	OG1	THR A 362	-4.100	17.707	20.786	1.00
	17.51	A	O					
30	ATOM	2677	CG2	THR A 362	-6.174	18.305	19.862	1.00
	20.58	A	C					
	ATOM	2678	C	THR A 362	-5.261	16.023	22.819	1.00
	17.21	A	C					

	ATOM	2679	O	THR A 362	-5.411	14.858	22.530	1.00
	13.79	A	O					
	ATOM	2680	N	LEU A 363	-4.398	16.448	23.761	1.00
	16.68	A	N					
5	ATOM	2681	CA	LEU A 363	-3.560	15.505	24.484	1.00
	16.39	A	C					
	ATOM	2682	CB	LEU A 363	-2.547	16.213	25.411	1.00
	16.30	A	C					
10	ATOM	2683	CG	LEU A 363	-1.460	15.318	25.990	1.00
	16.62	A	C					
	ATOM	2684	CD1	LEU A 363	-0.380	14.960	24.939	1.00
	16.31	A	C					
	ATOM	2685	CD2	LEU A 363	-0.838	15.936	27.236	1.00
	15.84	A	C					
15	ATOM	2686	C	LEU A 363	-4.424	14.536	25.280	1.00
	17.11	A	C					
	ATOM	2687	O	LEU A 363	-5.404	14.936	25.911	1.00
	17.15	A	O					
20	ATOM	2688	N	VAL A 364	-4.068	13.253	25.249	1.00
	16.50	A	N					
	ATOM	2689	CA	VAL A 364	-4.829	12.263	25.975	1.00
	16.09	A	C					
	ATOM	2690	CB	VAL A 364	-5.285	11.121	25.030	1.00
	15.79	A	C					
25	ATOM	2691	CG1	VAL A 364	-5.871	9.933	25.826	1.00
	17.24	A	C					
	ATOM	2692	CG2	VAL A 364	-6.288	11.651	24.020	1.00
	16.26	A	C					
30	ATOM	2693	C	VAL A 364	-3.983	11.744	27.139	1.00
	15.68	A	C					
	ATOM	2694	O	VAL A 364	-4.329	11.942	28.309	1.00
	15.17	A	O					

	ATOM	2695	N	ASN	A	365	-2.875	11.085	26.809	1.00
	14.41	A	N							
	ATOM	2696	CA	ASN	A	365	-1.931	10.614	27.804	1.00
	14.31	A	C							
5	ATOM	2697	CB	ASN	A	365	-1.302	9.286	27.354	1.00
	14.31	A	C							
	ATOM	2698	CG	ASN	A	365	-2.342	8.161	27.214	1.00
	16.21	A	C							
10	ATOM	2699	OD1	ASN	A	365	-3.298	8.081	28.004	1.00
	13.31	A	O							
	ATOM	2700	ND2	ASN	A	365	-2.158	7.283	26.206	1.00
	14.49	A	N							
	ATOM	2701	C	ASN	A	365	-0.858	11.690	28.088	1.00
	14.80	A	C							
15	ATOM	2702	O	ASN	A	365	-0.174	12.190	27.172	1.00
	14.01	A	O							
	ATOM	2703	N	ASP	A	366	-0.696	12.015	29.360	1.00
	14.06	A	N							
20	ATOM	2704	CA	ASP	A	366	0.158	13.115	29.783	1.00
	15.00	A	C							
	ATOM	2705	CB	ASP	A	366	-0.632	14.068	30.672	1.00
	14.40	A	C							
	ATOM	2706	CG	ASP	A	366	0.105	15.346	30.990	1.00
	15.13	A	C							
25	ATOM	2707	OD1	ASP	A	366	1.344	15.467	30.710	1.00
	13.15	A	O							
	ATOM	2708	OD2	ASP	A	366	-0.491	16.284	31.609	1.00
	17.79	A	O							
30	ATOM	2709	C	ASP	A	366	1.367	12.568	30.548	1.00
	14.89	A	C							
	ATOM	2710	O	ASP	A	366	1.257	12.132	31.708	1.00
	15.57	A	O							

	ATOM	2711	N	LEU	A	367	2.501	12.562	29.865	1.00
	14.16	A	N							
	ATOM	2712	CA	LEU	A	367	3.772	12.248	30.462	1.00
	14.65	A	C							
5	ATOM	2713	CB	LEU	A	367	4.581	11.333	29.520	1.00
	14.37	A	C							
	ATOM	2714	CG	LEU	A	367	3.990	10.005	29.077	1.00
	13.06	A	C							
10	ATOM	2715	CD1	LEU	A	367	5.063	9.220	28.244	1.00
	12.20	A	C							
	ATOM	2716	CD2	LEU	A	367	3.485	9.123	30.239	1.00
	15.25	A	C							
	ATOM	2717	C	LEU	A	367	4.523	13.555	30.710	1.00
	14.15	A	C							
15	ATOM	2718	O	LEU	A	367	4.271	14.546	30.045	1.00
	14.17	A	O							
	ATOM	2719	N	ASP	A	368	5.441	13.556	31.677	1.00
	14.04	A	N							
20	ATOM	2720	CA	ASP	A	368	6.271	14.705	31.980	1.00
	14.28	A	C							
	ATOM	2721	CB	ASP	A	368	5.959	15.284	33.354	1.00
	15.52	A	C							
	ATOM	2722	CG	ASP	A	368	4.529	15.726	33.515	1.00
	17.54	A	C							
25	ATOM	2723	OD1	ASP	A	368	3.909	16.253	32.540	1.00
	14.48	A	O							
	ATOM	2724	OD2	ASP	A	368	4.006	15.624	34.642	1.00
	17.39	A	O							
30	ATOM	2725	C	ASP	A	368	7.724	14.275	32.057	1.00
	14.49	A	C							
	ATOM	2726	O	ASP	A	368	8.034	13.203	32.587	1.00
	13.94	A	O							

	ATOM	2727	N	LEU	A	369	8.603	15.108	31.520	1.00
	14.32	A	N							
	ATOM	2728	CA	LEU	A	369	10.044	14.937	31.645	1.00
	14.31	A	C							
5	ATOM	2729	CB	LEU	A	369	10.735	15.448	30.380	1.00
	13.72	A	C							
	ATOM	2730	CG	LEU	A	369	12.238	15.284	30.298	1.00
	12.96	A	C							
10	ATOM	2731	CD1	LEU	A	369	12.572	13.850	30.345	1.00
	12.52	A	C							
	ATOM	2732	CD2	LEU	A	369	12.749	15.953	28.980	1.00
	14.11	A	C							
	ATOM	2733	C	LEU	A	369	10.539	15.733	32.854	1.00
	15.02	A	C							
15	ATOM	2734	O	LEU	A	369	10.218	16.922	33.012	1.00
	15.50	A	O							
	ATOM	2735	N	VAL	A	370	11.315	15.085	33.698	1.00
	15.26	A	N							
20	ATOM	2736	CA	VAL	A	370	11.875	15.729	34.905	1.00
	15.63	A	C							
	ATOM	2737	CB	VAL	A	370	11.144	15.278	36.180	1.00
	15.95	A	C							
	ATOM	2738	CG1	VAL	A	370	11.679	16.020	37.425	1.00
	17.73	A	C							
25	ATOM	2739	CG2	VAL	A	370	9.687	15.487	36.024	1.00
	15.57	A	C							
	ATOM	2740	C	VAL	A	370	13.359	15.388	34.975	1.00
	15.46	A	C							
30	ATOM	2741	O	VAL	A	370	13.767	14.219	35.042	1.00
	15.96	A	O							
	ATOM	2742	N	ILE	A	371	14.174	16.422	34.908	1.00
	15.15	A	N							

	ATOM	2743	CA	ILE	A	371	15.608	16.261	34.858	1.00
	14.98	A	C							
	ATOM	2744	CB	ILE	A	371	16.171	17.036	33.669	1.00
	14.71	A	C							
5	ATOM	2745	CG1	ILE	A	371	15.509	16.589	32.336	1.00
	14.63	A	C							
	ATOM	2746	CD1	ILE	A	371	15.600	15.075	32.072	1.00
	14.66	A	C							
10	ATOM	2747	CG2	ILE	A	371	17.674	16.922	33.614	1.00
	12.85	A	C							
	ATOM	2748	C	ILE	A	371	16.145	16.835	36.155	1.00
	15.95	A	C							
	ATOM	2749	O	ILE	A	371	15.648	17.853	36.618	1.00
	16.74	A	O							
15	ATOM	2750	N	THR	A	372	17.150	16.174	36.727	1.00
	16.86	A	N							
	ATOM	2751	CA	THR	A	372	17.858	16.671	37.897	1.00
	17.19	A	C							
20	ATOM	2752	CB	THR	A	372	17.618	15.748	39.089	1.00
	17.36	A	C							
	ATOM	2753	OG1	THR	A	372	16.212	15.514	39.265	1.00
	18.17	A	O							
	ATOM	2754	CG2	THR	A	372	18.044	16.409	40.372	1.00
	17.84	A	C							
25	ATOM	2755	C	THR	A	372	19.364	16.729	37.634	1.00
	17.65	A	C							
	ATOM	2756	O	THR	A	372	19.962	15.725	37.262	1.00
	18.44	A	O							
30	ATOM	2757	N	ALA	A	373	19.971	17.891	37.870	1.00
	17.80	A	N							
	ATOM	2758	CA	ALA	A	373	21.376	18.118	37.606	1.00
	18.13	A	C							

	ATOM	2759	CB	ALA	A	373	21.643	19.607	37.475	1.00
	18.43	A	C							
	ATOM	2760	C	ALA	A	373	22.175	17.545	38.767	1.00
	19.16	A	C							
5	ATOM	2761	O	ALA	A	373	21.601	17.188	39.780	1.00
	18.57	A	O							
	ATOM	2762	N	PRO	A	374	23.479	17.368	38.581	1.00
	19.84	A	N							
10	ATOM	2763	CA	PRO	A	374	24.348	16.857	39.642	1.00
	20.99	A	C							
	ATOM	2764	CB	PRO	A	374	25.727	16.884	39.001	1.00
	20.60	A	C							
	ATOM	2765	CG	PRO	A	374	25.434	16.700	37.530	1.00
	20.96	A	C							
15	ATOM	2766	CD	PRO	A	374	24.174	17.460	37.286	1.00
	20.29	A	C							
	ATOM	2767	C	PRO	A	374	24.266	17.647	40.948	1.00
	22.06	A	C							
20	ATOM	2768	O	PRO	A	374	24.303	17.039	42.011	1.00
	23.95	A	O							
	ATOM	2769	N	ASN	A	375	24.024	18.954	40.873	1.00
	23.03	A	N							
	ATOM	2770	CA	ASN	A	375	23.910	19.770	42.058	1.00
	23.32	A	C							
25	ATOM	2771	CB	ASN	A	375	24.515	21.165	41.790	1.00
	24.03	A	C							
	ATOM	2772	CG	ASN	A	375	23.581	22.096	40.993	1.00
	26.93	A	C							
30	ATOM	2773	OD1	ASN	A	375	22.515	21.689	40.492	1.00
	28.51	A	O							
	ATOM	2774	ND2	ASN	A	375	23.987	23.362	40.878	1.00
	27.28	A	N							

	ATOM	2775	C	ASN	A	375	22.471	19.898	42.563	1.00
	23.07	A	C							
	ATOM	2776	O	ASN	A	375	22.208	20.711	43.430	1.00
	22.92	A	O							
5	ATOM	2777	N	GLY	A	376	21.541	19.120	42.010	1.00
	21.76	A	N							
	ATOM	2778	CA	GLY	A	376	20.166	19.165	42.469	1.00
	21.43	A	C							
10	ATOM	2779	C	GLY	A	376	19.197	20.077	41.724	1.00
	20.91	A	C							
	ATOM	2780	O	GLY	A	376	17.990	20.006	41.937	1.00
	19.94	A	O							
	ATOM	2781	N	THR	A	377	19.696	20.909	40.828	1.00
	21.29	A	N							
15	ATOM	2782	CA	THR	A	377	18.793	21.785	40.090	1.00
	21.36	A	C							
	ATOM	2783	CB	THR	A	377	19.571	22.738	39.220	1.00
	21.19	A	C							
20	ATOM	2784	OG1	THR	A	377	20.423	23.532	40.054	1.00
	22.26	A	O							
	ATOM	2785	CG2	THR	A	377	18.635	23.724	38.538	1.00
	20.97	A	C							
	ATOM	2786	C	THR	A	377	17.818	20.971	39.239	1.00
	20.56	A	C							
25	ATOM	2787	O	THR	A	377	18.206	20.058	38.541	1.00
	19.93	A	O							
	ATOM	2788	N	LYS	A	378	16.558	21.345	39.315	1.00
	20.68	A	N							
30	ATOM	2789	CA	LYS	A	378	15.488	20.630	38.644	1.00
	21.64	A	C							
	ATOM	2790	CB	LYS	A	378	14.321	20.503	39.594	1.00
	22.42	A	C							

	ATOM	2791	CG	LYS	A	378	13.709	19.168	39.611	1.00
	28.13	A	C							
	ATOM	2792	CD	LYS	A	378	14.144	18.449	40.913	1.00
	33.32	A	C							
5	ATOM	2793	CE	LYS	A	378	13.743	17.001	40.854	1.00
	34.92	A	C							
	ATOM	2794	NZ	LYS	A	378	14.605	16.111	41.699	1.00
	38.61	A	N							
10	ATOM	2795	C	LYS	A	378	14.990	21.344	37.397	1.00
	20.06	A	C							
	ATOM	2796	O	LYS	A	378	14.902	22.553	37.388	1.00
	19.59	A	O							
	ATOM	2797	N	TYR	A	379	14.623	20.568	36.378	1.00
	18.59	A	N							
15	ATOM	2798	CA	TYR	A	379	14.009	21.088	35.155	1.00
	17.87	A	C							
	ATOM	2799	CB	TYR	A	379	15.030	21.111	34.011	1.00
	17.25	A	C							
20	ATOM	2800	CG	TYR	A	379	16.382	21.654	34.386	1.00
	17.53	A	C							
	ATOM	2801	CD1	TYR	A	379	17.297	20.864	35.052	1.00
	18.58	A	C							
	ATOM	2802	CE1	TYR	A	379	18.537	21.352	35.417	1.00
	19.05	A	C							
25	ATOM	2803	CZ	TYR	A	379	18.895	22.655	35.097	1.00
	21.25	A	C							
	ATOM	2804	OH	TYR	A	379	20.160	23.104	35.465	1.00
	20.46	A	O							
30	ATOM	2805	CE2	TYR	A	379	18.004	23.459	34.399	1.00
	19.58	A	C							
	ATOM	2806	CD2	TYR	A	379	16.751	22.953	34.060	1.00
	18.07	A	C							

	ATOM	2807	C	TYR A 379	12.852	20.198	34.732	1.00
	17.42	A	C					
	ATOM	2808	O	TYR A 379	12.967	18.973	34.766	1.00
	18.13	A	O					
5	ATOM	2809	N	VAL A 380	11.732	20.787	34.340	1.00
	16.44	A	N					
	ATOM	2810	CA	VAL A 380	10.653	19.989	33.750	1.00
	16.11	A	C					
10	ATOM	2811	CB	VAL A 380	9.320	20.114	34.514	1.00
	16.66	A	C					
	ATOM	2812	CG1	VAL A 380	9.521	19.742	36.000	1.00
	17.64	A	C					
	ATOM	2813	CG2	VAL A 380	8.716	21.505	34.369	1.00
	16.52	A	C					
15	ATOM	2814	C	VAL A 380	10.466	20.353	32.283	1.00
	14.93	A	C					
	ATOM	2815	O	VAL A 380	10.876	21.425	31.826	1.00
	15.17	A	O					
20	ATOM	2816	N	GLY A 381	9.868	19.436	31.547	1.00
	14.19	A	N					
	ATOM	2817	CA	GLY A 381	9.761	19.541	30.101	1.00
	13.85	A	C					
	ATOM	2818	C	GLY A 381	9.132	20.847	29.647	1.00
	13.74	A	C					
25	ATOM	2819	O	GLY A 381	8.096	21.259	30.153	1.00
	13.57	A	O					
	ATOM	2820	N	ASN A 382	9.813	21.509	28.729	1.00
	13.87	A	N					
30	ATOM	2821	CA	ASN A 382	9.332	22.719	28.064	1.00
	14.08	A	C					
	ATOM	2822	CB	ASN A 382	8.002	22.451	27.344	1.00
	13.91	A	C					

	ATOM	2823	CG	ASN	A	382	8.148	21.436	26.209	1.00
	14.03	A	C							
	ATOM	2824	OD1	ASN	A	382	9.250	21.181	25.757	1.00
	13.23	A	O							
5	ATOM	2825	ND2	ASN	A	382	7.041	20.850	25.770	1.00
	10.67	A	N							
	ATOM	2826	C	ASN	A	382	9.232	23.942	28.966	1.00
	14.58	A	C							
10	ATOM	2827	O	ASN	A	382	8.682	24.981	28.556	1.00
	14.15	A	O							
	ATOM	2828	N	ASP	A	383	9.796	23.869	30.178	1.00
	14.75	A	N							
	ATOM	2829	CA	ASP	A	383	9.813	25.057	31.017	1.00
	14.97	A	C							
15	ATOM	2830	CB	ASP	A	383	9.593	24.709	32.499	1.00
	15.34	A	C							
	ATOM	2831	CG	ASP	A	383	9.580	25.952	33.388	1.00
	15.81	A	C							
20	ATOM	2832	OD1	ASP	A	383	9.786	27.082	32.845	1.00
	16.83	A	O							
	ATOM	2833	OD2	ASP	A	383	9.394	25.897	34.636	1.00
	15.84	A	O							
	ATOM	2834	C	ASP	A	383	11.127	25.813	30.810	1.00
	15.13	A	C							
25	ATOM	2835	O	ASP	A	383	12.160	25.490	31.398	1.00
	15.46	A	O							
	ATOM	2836	N	PHE	A	384	11.074	26.859	30.000	1.00
	15.11	A	N							
30	ATOM	2837	CA	PHE	A	384	12.284	27.559	29.589	1.00
	15.10	A	C							
	ATOM	2838	CB	PHE	A	384	12.178	27.818	28.086	1.00
	16.52	A	C							

	ATOM	2839	CG	PHE	A	384	12.247	26.560	27.240	1.00
	14.23	A	C							
	ATOM	2840	CD1	PHE	A	384	13.440	25.910	27.059	1.00
	19.41	A	C							
5	ATOM	2841	CE1	PHE	A	384	13.516	24.782	26.273	1.00
	19.08	A	C							
	ATOM	2842	CZ	PHE	A	384	12.395	24.303	25.685	1.00
	18.05	A	C							
10	ATOM	2843	CE2	PHE	A	384	11.208	24.943	25.845	1.00
	14.73	A	C							
	ATOM	2844	CD2	PHE	A	384	11.140	26.070	26.602	1.00
	16.74	A	C							
	ATOM	2845	C	PHE	A	384	12.546	28.857	30.389	1.00
	15.96	A	C							
15	ATOM	2846	O	PHE	A	384	13.547	29.558	30.152	1.00
	15.13	A	O							
	ATOM	2847	N	THR	A	385	11.666	29.151	31.350	1.00
	16.18	A	N							
20	ATOM	2848	CA	THR	A	385	11.820	30.294	32.264	1.00
	17.37	A	C							
	ATOM	2849	CB	THR	A	385	10.519	31.097	32.400	1.00
	17.19	A	C							
	ATOM	2850	OG1	THR	A	385	9.520	30.295	33.030	1.00
	17.98	A	O							
25	ATOM	2851	CG2	THR	A	385	9.922	31.491	31.028	1.00
	18.21	A	C							
	ATOM	2852	C	THR	A	385	12.238	29.868	33.689	1.00
	17.95	A	C							
30	ATOM	2853	O	THR	A	385	11.703	28.890	34.252	1.00
	17.41	A	O							
	ATOM	2854	N	ALA	A	386	13.197	30.599	34.250	1.00
	18.54	A	N							

	ATOM	2855	CA	ALA	A	386	13.743	30.266	35.565	1.00
	19.43	A	C							
	ATOM	2856	CB	ALA	A	386	15.056	30.971	35.792	1.00
	19.87	A	C							
5	ATOM	2857	C	ALA	A	386	12.728	30.697	36.594	1.00
	20.06	A	C							
	ATOM	2858	O	ALA	A	386	12.078	31.735	36.409	1.00
	21.03	A	O							
10	ATOM	2859	N	PRO	A	387	12.525	29.897	37.635	1.00
	19.71	A	N							
	ATOM	2860	CA	PRO	A	387	13.134	28.582	37.766	1.00
	20.17	A	C							
	ATOM	2861	CB	PRO	A	387	12.951	28.269	39.250	1.00
	20.90	A	C							
15	ATOM	2862	CG	PRO	A	387	11.609	28.910	39.587	1.00
	20.16	A	C							
	ATOM	2863	CD	PRO	A	387	11.670	30.223	38.796	1.00
	21.11	A	C							
20	ATOM	2864	C	PRO	A	387	12.413	27.549	36.890	1.00
	19.33	A	C							
	ATOM	2865	O	PRO	A	387	11.237	27.688	36.612	1.00
	18.07	A	O							
	ATOM	2866	N	TYR	A	388	13.144	26.521	36.491	1.00
	19.24	A	N							
25	ATOM	2867	CA	TYR	A	388	12.781	25.672	35.365	1.00
	19.24	A	C							
	ATOM	2868	CB	TYR	A	388	14.059	25.211	34.661	1.00
	18.91	A	C							
30	ATOM	2869	CG	TYR	A	388	14.912	26.363	34.177	1.00
	18.51	A	C							
	ATOM	2870	CD1	TYR	A	388	16.128	26.625	34.761	1.00
	16.61	A	C							

	ATOM	2871	CE1	TYR	A	388	16.912	27.701	34.350	1.00
	17.76	A	C							
	ATOM	2872	CZ	TYR	A	388	16.462	28.511	33.312	1.00
	15.12	A	C							
5	ATOM	2873	OH	TYR	A	388	17.242	29.565	32.918	1.00
	17.69	A	O							
	ATOM	2874	CE2	TYR	A	388	15.241	28.276	32.723	1.00
	14.50	A	C							
10	ATOM	2875	CD2	TYR	A	388	14.462	27.229	33.154	1.00
	14.33	A	C							
	ATOM	2876	C	TYR	A	388	11.934	24.467	35.745	1.00
	19.73	A	C							
	ATOM	2877	O	TYR	A	388	11.688	23.598	34.913	1.00
	19.79	A	O							
15	ATOM	2878	N	ASP	A	389	11.422	24.442	36.972	1.00
	20.38	A	N							
	ATOM	2879	CA	ASP	A	389	10.605	23.327	37.430	1.00
	21.41	A	C							
20	ATOM	2880	CB	ASP	A	389	11.346	22.547	38.507	1.00
	22.04	A	C							
	ATOM	2881	CG	ASP	A	389	11.504	23.343	39.796	1.00
	24.83	A	C							
	ATOM	2882	OD1	ASP	A	389	11.618	22.706	40.869	1.00
	27.95	A	O							
25	ATOM	2883	OD2	ASP	A	389	11.523	24.595	39.822	1.00
	24.63	A	O							
	ATOM	2884	C	ASP	A	389	9.246	23.724	37.968	1.00
	21.64	A	C							
30	ATOM	2885	O	ASP	A	389	8.629	22.947	38.709	1.00
	22.12	A	O							
	ATOM	2886	N	ASN	A	390	8.759	24.908	37.618	1.00
	21.45	A	N							

	ATOM	2887	CA	ASN	A	390	7.455	25.326	38.130	1.00
	22.14	A	C							
	ATOM	2888	CB	ASN	A	390	7.555	26.664	38.892	1.00
	22.91	A	C							
5	ATOM	2889	CG	ASN	A	390	7.965	27.825	37.989	1.00
	23.08	A	C							
	ATOM	2890	OD1	ASN	A	390	8.404	27.620	36.847	1.00
	22.98	A	O							
10	ATOM	2891	ND2	ASN	A	390	7.816	29.050	38.491	1.00
	23.21	A	N							
	ATOM	2892	C	ASN	A	390	6.356	25.402	37.060	1.00
	22.16	A	C							
	ATOM	2893	O	ASN	A	390	5.181	25.500	37.405	1.00
	21.88	A	O							
15	ATOM	2894	N	ASN	A	391	6.717	25.340	35.772	1.00
	21.51	A	N							
	ATOM	2895	CA	ASN	A	391	5.705	25.411	34.713	1.00
	20.98	A	C							
20	ATOM	2896	CB	ASN	A	391	5.986	26.567	33.728	1.00
	21.22	A	C							
	ATOM	2897	CG	ASN	A	391	6.221	27.924	34.426	1.00
	22.34	A	C							
	ATOM	2898	OD1	ASN	A	391	7.345	28.481	34.388	1.00
	22.21	A	O							
25	ATOM	2899	ND2	ASN	A	391	5.151	28.490	35.029	1.00
	23.08	A	N							
	ATOM	2900	C	ASN	A	391	5.611	24.072	33.978	1.00
	20.79	A	C							
30	ATOM	2901	O	ASN	A	391	6.295	23.818	32.978	1.00
	21.08	A	O							
	ATOM	2902	N	TRP	A	392	4.741	23.211	34.467	1.00
	20.10	A	N							

	ATOM 20.04	2903 A	CA C	TRP A 392	4.601	21.862	33.928	1.00
	ATOM 20.74	2904 A	CB C	TRP A 392	3.893	20.979	34.926	1.00
5	ATOM 24.30	2905 A	CG C	TRP A 392	4.629	20.757	36.231	1.00
	ATOM 28.54	2906 A	CD1 C	TRP A 392	4.687	21.605	37.309	1.00
10	ATOM 30.71	2907 A	NE1 N	TRP A 392	5.435	21.038	38.317	1.00
	ATOM 28.29	2908 A	CE2 C	TRP A 392	5.870	19.804	37.902	1.00
	ATOM 27.17	2909 A	CD2 C	TRP A 392	5.367	19.594	36.598	1.00
15	ATOM 29.38	2910 A	CE3 C	TRP A 392	5.695	18.400	35.937	1.00
	ATOM 28.54	2911 A	CZ3 C	TRP A 392	6.456	17.447	36.608	1.00
20	ATOM 30.49	2912 A	CH2 C	TRP A 392	6.922	17.683	37.904	1.00
	ATOM 30.31	2913 A	CZ2 C	TRP A 392	6.643	18.857	38.566	1.00
	ATOM 19.03	2914 A	C C	TRP A 392	3.767	21.890	32.661	1.00
25	ATOM 19.40	2915 A	O O	TRP A 392	2.828	22.678	32.552	1.00
	ATOM 17.66	2916 A	N N	ASP A 393	4.107	21.020	31.709	1.00
30	ATOM 16.59	2917 A	CA C	ASP A 393	3.416	20.958	30.424	1.00
	ATOM 16.47	2918 A	CB C	ASP A 393	4.431	20.669	29.332	1.00

	ATOM	2919	CG	ASP	A	393	3.813	20.660	27.930	1.00
	15.80	A	C							
	ATOM	2920	OD1	ASP	A	393	4.350	21.364	27.045	1.00
	14.98	A	O							
5	ATOM	2921	OD2	ASP	A	393	2.817	19.975	27.629	1.00
	15.12	A	O							
	ATOM	2922	C	ASP	A	393	2.324	19.888	30.425	1.00
	16.46	A	C							
10	ATOM	2923	O	ASP	A	393	2.606	18.716	30.648	1.00
	15.65	A	O							
	ATOM	2924	N	GLY	A	394	1.080	20.302	30.178	1.00
	15.96	A	N							
	ATOM	2925	CA	GLY	A	394	-0.029	19.384	30.014	1.00
	16.13	A	C							
15	ATOM	2926	C	GLY	A	394	-0.747	19.498	28.675	1.00
	16.27	A	C							
	ATOM	2927	O	GLY	A	394	-1.936	19.255	28.601	1.00
	16.15	A	O							
20	ATOM	2928	N	ARG	A	395	-0.030	19.864	27.617	1.00
	17.31	A	N							
	ATOM	2929	CA	ARG	A	395	-0.607	19.978	26.264	1.00
	17.68	A	C							
	ATOM	2930	CB	ARG	A	395	-0.588	21.437	25.783	1.00
	19.08	A	C							
25	ATOM	2931	CG	ARG	A	395	-1.434	22.408	26.518	1.00
	26.02	A	C							
	ATOM	2932	CD	ARG	A	395	-1.172	23.839	26.066	1.00
	31.34	A	C							
30	ATOM	2933	NE	ARG	A	395	-1.802	24.813	26.969	1.00
	37.30	A	N							
	ATOM	2934	CZ	ARG	A	395	-3.026	25.331	26.821	1.00
	40.58	A	C							

	ATOM	2935	NH1	ARG	A	395	-3.478	26.216	27.717	1.00
	44.12	A	N							
	ATOM	2936	NH2	ARG	A	395	-3.805	24.983	25.805	1.00
	40.20	A	N							
5	ATOM	2937	C	ARG	A	395	0.176	19.240	25.165	1.00
	15.80	A	C							
	ATOM	2938	O	ARG	A	395	-0.418	18.827	24.176	1.00
	16.01	A	O							
10	ATOM	2939	N	ASN	A	396	1.502	19.212	25.282	1.00
	14.41	A	N							
	ATOM	2940	CA	ASN	A	396	2.389	18.645	24.251	1.00
	13.89	A	C							
	ATOM	2941	CB	ASN	A	396	3.662	19.483	24.133	1.00
	13.10	A	C							
15	ATOM	2942	CG	ASN	A	396	3.408	20.889	23.585	1.00
	14.63	A	C							
	ATOM	2943	OD1	ASN	A	396	3.129	21.075	22.374	1.00
	11.53	A	O							
20	ATOM	2944	ND2	ASN	A	396	3.550	21.897	24.463	1.00
	11.89	A	N							
	ATOM	2945	C	ASN	A	396	2.806	17.197	24.475	1.00
	13.64	A	C							
	ATOM	2946	O	ASN	A	396	2.995	16.743	25.634	1.00
	14.92	A	O							
25	ATOM	2947	N	ASN	A	397	2.973	16.452	23.376	1.00
	13.56	A	N							
	ATOM	2948	CA	ASN	A	397	3.539	15.085	23.451	1.00
	12.37	A	C							
30	ATOM	2949	CB	ASN	A	397	2.705	14.080	22.672	1.00
	12.41	A	C							
	ATOM	2950	CG	ASN	A	397	2.539	14.450	21.192	1.00
	13.07	A	C							

	ATOM	2951	OD1	ASN	A	397	2.243	15.594	20.849	1.00
	12.07	A	O							
	ATOM	2952	ND2	ASN	A	397	2.683	13.466	20.324	1.00
	13.08	A	N							
5	ATOM	2953	C	ASN	A	397	5.011	15.077	23.010	1.00
	13.13	A	C							
	ATOM	2954	O	ASN	A	397	5.607	14.010	22.663	1.00
	11.34	A	O							
10	ATOM	2955	N	VAL	A	398	5.577	16.291	23.028	1.00
	12.66	A	N							
	ATOM	2956	CA	VAL	A	398	6.992	16.524	22.914	1.00
	12.58	A	C							
	ATOM	2957	CB	VAL	A	398	7.329	17.261	21.626	1.00
	13.06	A	C							
15	ATOM	2958	CG1	VAL	A	398	8.835	17.523	21.533	1.00
	11.41	A	C							
	ATOM	2959	CG2	VAL	A	398	6.846	16.476	20.408	1.00
	12.98	A	C							
20	ATOM	2960	C	VAL	A	398	7.381	17.412	24.105	1.00
	12.92	A	C							
	ATOM	2961	O	VAL	A	398	6.819	18.501	24.272	1.00
	13.08	A	O							
	ATOM	2962	N	GLU	A	399	8.288	16.913	24.945	1.00
	12.47	A	N							
25	ATOM	2963	CA	GLU	A	399	8.797	17.666	26.107	1.00
	12.81	A	C							
	ATOM	2964	CB	GLU	A	399	8.339	17.054	27.452	1.00
	12.40	A	C							
30	ATOM	2965	CG	GLU	A	399	6.870	17.340	27.793	1.00
	11.56	A	C							
	ATOM	2966	CD	GLU	A	399	6.538	17.357	29.284	1.00
	13.58	A	C							

	ATOM	2967	OE1	GLU	A	399	5.312	17.324	29.635	1.00
	14.48	A	O							
	ATOM	2968	OE2	GLU	A	399	7.471	17.421	30.112	1.00
	14.20	A	O							
5	ATOM	2969	C	GLU	A	399	10.307	17.680	26.052	1.00
	12.44	A	C							
	ATOM	2970	O	GLU	A	399	10.920	16.624	25.929	1.00
	13.16	A	O							
10	ATOM	2971	N	ASN	A	400	10.890	18.883	26.174	1.00
	12.69	A	N							
	ATOM	2972	CA	ASN	A	400	12.326	19.098	26.073	1.00
	12.36	A	C							
	ATOM	2973	CB	ASN	A	400	12.636	19.953	24.822	1.00
	12.37	A	C							
15	ATOM	2974	CG	ASN	A	400	12.185	19.302	23.559	1.00
	14.26	A	C							
	ATOM	2975	OD1	ASN	A	400	12.621	18.213	23.247	1.00
	16.94	A	O							
20	ATOM	2976	ND2	ASN	A	400	11.302	19.964	22.817	1.00
	14.56	A	N							
	ATOM	2977	C	ASN	A	400	12.959	19.820	27.254	1.00
	11.55	A	C							
	ATOM	2978	O	ASN	A	400	12.363	20.716	27.867	1.00
	11.03	A	O							
25	ATOM	2979	N	VAL	A	401	14.200	19.448	27.543	1.00
	11.83	A	N							
	ATOM	2980	CA	VAL	A	401	15.042	20.183	28.494	1.00
	11.67	A	C							
30	ATOM	2981	CB	VAL	A	401	15.230	19.394	29.804	1.00
	11.24	A	C							
	ATOM	2982	CG1	VAL	A	401	16.317	20.017	30.668	1.00
	13.18	A	C							

	ATOM	2983	CG2	VAL	A	401	13.962	19.359	30.558	1.00
	11.36	A	C							
	ATOM	2984	C	VAL	A	401	16.351	20.372	27.792	1.00
	12.10	A	C							
5	ATOM	2985	O	VAL	A	401	17.022	19.394	27.471	1.00
	12.05	A	O							
	ATOM	2986	N	PHE	A	402	16.693	21.634	27.528	1.00
	12.69	A	N							
10	ATOM	2987	CA	PHE	A	402	17.841	22.019	26.744	1.00
	14.06	A	C							
	ATOM	2988	CB	PHE	A	402	17.401	22.853	25.517	1.00
	14.70	A	C							
	ATOM	2989	CG	PHE	A	402	16.602	22.079	24.464	1.00
	12.42	A	C							
15	ATOM	2990	CD1	PHE	A	402	15.936	22.764	23.455	1.00
	15.18	A	C							
	ATOM	2991	CE1	PHE	A	402	15.222	22.069	22.468	1.00
	12.37	A	C							
20	ATOM	2992	CZ	PHE	A	402	15.195	20.700	22.489	1.00
	11.68	A	C							
	ATOM	2993	CE2	PHE	A	402	15.841	20.022	23.493	1.00
	14.06	A	C							
	ATOM	2994	CD2	PHE	A	402	16.534	20.698	24.465	1.00
	10.95	A	C							
25	ATOM	2995	C	PHE	A	402	18.725	22.896	27.641	1.00
	15.85	A	C							
	ATOM	2996	O	PHE	A	402	18.356	24.021	27.952	1.00
	16.80	A	O							
30	ATOM	2997	N	ILE	A	403	19.886	22.379	28.028	1.00
	16.60	A	N							
	ATOM	2998	CA	ILE	A	403	20.787	23.062	28.963	1.00
	17.41	A	C							

	ATOM 16.74	2999 A	CB C	ILE A 403	21.088	22.167	30.160	1.00
	ATOM 17.16	3000 A	CG1 C	ILE A 403	19.802	21.886	30.944	1.00
5	ATOM 15.43	3001 A	CD1 C	ILE A 403	19.946	20.733	31.931	1.00
	ATOM 17.20	3002 A	CG2 C	ILE A 403	22.143	22.809	31.095	1.00
10	ATOM 17.62	3003 A	C C	ILE A 403	22.064	23.395	28.240	1.00
	ATOM 17.97	3004 A	O O	ILE A 403	22.812	22.520	27.854	1.00
	ATOM 18.39	3005 A	N N	ASN A 404	22.299	24.678	28.026	1.00
15	ATOM 19.61	3006 A	CA C	ASN A 404	23.429	25.112	27.231	1.00
	ATOM 20.94	3007 A	CB C	ASN A 404	23.255	26.599	26.874	1.00
20	ATOM 26.59	3008 A	CG C	ASN A 404	24.297	27.071	25.913	1.00
	ATOM 32.24	3009 A	OD1 O	ASN A 404	24.339	26.618	24.752	1.00
	ATOM 32.91	3010 A	ND2 N	ASN A 404	25.177	27.980	26.381	1.00
25	ATOM 18.94	3011 A	C C	ASN A 404	24.773	24.892	27.940	1.00
	ATOM 18.69	3012 A	O O	ASN A 404	25.769	24.575	27.296	1.00
30	ATOM 18.60	3013 A	N N	ALA A 405	24.779	25.020	29.262	1.00
	ATOM 19.42	3014 A	CA C	ALA A 405	26.011	24.902	30.044	1.00

	ATOM 19.40	3015 A	CB C	ALA A 405	26.450	26.317	30.582	1.00
	ATOM 19.12	3016 A	C C	ALA A 405	25.787	23.934	31.217	1.00
5	ATOM 18.74	3017 A	O O	ALA A 405	25.582	24.364	32.360	1.00
	ATOM 19.16	3018 A	N N	PRO A 406	25.782	22.632	30.936	1.00
10	ATOM 19.37	3019 A	CA C	PRO A 406	25.508	21.629	31.977	1.00
	ATOM 19.25	3020 A	CB C	PRO A 406	25.266	20.351	31.156	1.00
	ATOM 19.80	3021 A	CG C	PRO A 406	26.120	20.546	29.977	1.00
15	ATOM 18.90	3022 A	CD C	PRO A 406	26.033	22.010	29.631	1.00
	ATOM 19.45	3023 A	C C	PRO A 406	26.689	21.437	32.923	1.00
20	ATOM 19.95	3024 A	O O	PRO A 406	27.815	21.833	32.607	1.00
	ATOM 19.97	3025 A	N N	GLN A 407	26.437	20.819	34.072	1.00
	ATOM 20.20	3026 A	CA C	GLN A 407	27.490	20.446	35.016	1.00
25	ATOM 21.02	3027 A	CB C	GLN A 407	26.908	20.387	36.413	1.00
	ATOM 22.32	3028 A	CG C	GLN A 407	26.155	21.620	36.805	1.00
30	ATOM 23.76	3029 A	CD C	GLN A 407	25.122	21.323	37.849	1.00
	ATOM 21.20	3030 A	OE1 O	GLN A 407	25.320	20.443	38.713	1.00

	ATOM	3031	NE2	GLN	A	407	24.016	22.040	37.789	1.00
	22.99	A	N							
	ATOM	3032	C	GLN	A	407	28.062	19.075	34.675	1.00
	20.27	A	C							
5	ATOM	3033	O	GLN	A	407	27.392	18.232	34.057	1.00
	19.75	A	O							
	ATOM	3034	N	SER	A	408	29.294	18.830	35.099	1.00
	20.30	A	N							
10	ATOM	3035	CA	SER	A	408	29.869	17.491	35.033	1.00
	20.08	A	C							
	ATOM	3036	CB	SER	A	408	31.393	17.538	35.212	1.00
	20.55	A	C							
	ATOM	3037	OG	SER	A	408	32.042	18.067	34.072	1.00
	19.34	A	O							
15	ATOM	3038	C	SER	A	408	29.269	16.615	36.120	1.00
	19.97	A	C							
	ATOM	3039	O	SER	A	408	29.130	17.043	37.268	1.00
	20.96	A	O							
20	ATOM	3040	N	GLY	A	409	28.980	15.362	35.775	1.00
	19.80	A	N							
	ATOM	3041	CA	GLY	A	409	28.447	14.392	36.715	1.00
	18.94	A	C							
	ATOM	3042	C	GLY	A	409	27.216	13.697	36.160	1.00
	19.28	A	C							
25	ATOM	3043	O	GLY	A	409	27.026	13.646	34.940	1.00
	18.32	A	O							
	ATOM	3044	N	THR	A	410	26.350	13.224	37.058	1.00
	18.72	A	N							
30	ATOM	3045	CA	THR	A	410	25.226	12.396	36.678	1.00
	18.26	A	C							
	ATOM	3046	CB	THR	A	410	25.105	11.220	37.631	1.00
	17.98	A	C							

	ATOM	3047	OG1	THR	A	410	26.334	10.466	37.637	1.00
	16.34	A	O							
	ATOM	3048	CG2	THR	A	410	24.038	10.227	37.136	1.00
	18.99	A	C							
5	ATOM	3049	C	THR	A	410	23.923	13.183	36.687	1.00
	18.19	A	C							
	ATOM	3050	O	THR	A	410	23.510	13.735	37.718	1.00
	18.85	A	O							
10	ATOM	3051	N	TYR	A	411	23.274	13.241	35.524	1.00
	17.34	A	N							
	ATOM	3052	CA	TYR	A	411	21.942	13.783	35.430	1.00
	16.46	A	C							
	ATOM	3053	CB	TYR	A	411	21.731	14.459	34.067	1.00
	16.84	A	C							
15	ATOM	3054	CG	TYR	A	411	22.286	15.869	34.025	1.00
	16.33	A	C							
	ATOM	3055	CD1	TYR	A	411	21.458	16.953	34.156	1.00
	16.27	A	C							
20	ATOM	3056	CE1	TYR	A	411	21.956	18.231	34.131	1.00
	16.41	A	C							
	ATOM	3057	CZ	TYR	A	411	23.319	18.438	33.994	1.00
	17.03	A	C							
	ATOM	3058	OH	TYR	A	411	23.789	19.744	34.031	1.00
	17.03	A	O							
25	ATOM	3059	CE2	TYR	A	411	24.172	17.380	33.880	1.00
	16.15	A	C							
	ATOM	3060	CD2	TYR	A	411	23.660	16.099	33.889	1.00
	17.36	A	C							
30	ATOM	3061	C	TYR	A	411	20.956	12.627	35.606	1.00
	16.14	A	C							
	ATOM	3062	O	TYR	A	411	21.157	11.557	35.041	1.00
	15.95	A	O							

	ATOM	3063	N	THR	A	412	19.920	12.841	36.399	1.00
	15.50	A	N							
	ATOM	3064	CA	THR	A	412	18.760	11.959	36.418	1.00
	16.39	A	C							
5	ATOM	3065	CB	THR	A	412	18.107	12.037	37.808	1.00
	16.73	A	C							
	ATOM	3066	OG1	THR	A	412	19.041	11.544	38.783	1.00
	16.43	A	O							
10	ATOM	3067	CG2	THR	A	412	16.877	11.115	37.946	1.00
	18.16	A	C							
	ATOM	3068	C	THR	A	412	17.764	12.397	35.344	1.00
	16.26	A	C							
	ATOM	3069	O	THR	A	412	17.404	13.568	35.286	1.00
	15.84	A	O							
15	ATOM	3070	N	VAL	A	413	17.313	11.444	34.516	1.00
	16.67	A	N							
	ATOM	3071	CA	VAL	A	413	16.342	11.672	33.452	1.00
	15.75	A	C							
20	ATOM	3072	CB	VAL	A	413	16.924	11.246	32.066	1.00
	16.41	A	C							
	ATOM	3073	CG1	VAL	A	413	15.914	11.476	30.914	1.00
	15.53	A	C							
	ATOM	3074	CG2	VAL	A	413	18.240	11.946	31.773	1.00
	15.42	A	C							
25	ATOM	3075	C	VAL	A	413	15.134	10.811	33.791	1.00
	16.95	A	C							
	ATOM	3076	O	VAL	A	413	15.232	9.574	33.667	1.00
	18.21	A	O							
30	ATOM	3077	N	GLU	A	414	14.040	11.439	34.256	1.00
	16.21	A	N							
	ATOM	3078	CA	GLU	A	414	12.803	10.774	34.736	1.00
	17.01	A	C							

	ATOM	3079	CB	GLU	A	414	12.467	11.202	36.134	1.00
	16.06	A	C							
	ATOM	3080	CG	GLU	A	414	11.518	10.244	36.767	1.00
	18.61	A	C							
5	ATOM	3081	CD	GLU	A	414	11.626	10.318	38.265	1.00
	17.99	A	C							
	ATOM	3082	OE1	GLU	A	414	11.212	11.334	38.830	1.00
	20.38	A	O							
10	ATOM	3083	OE2	GLU	A	414	12.198	9.404	38.810	1.00
	18.55	A	O							
	ATOM	3084	C	GLU	A	414	11.715	11.142	33.729	1.00
	16.05	A	C							
	ATOM	3085	O	GLU	A	414	11.428	12.301	33.528	1.00
	15.27	A	O							
15	ATOM	3086	N	VAL	A	415	11.037	10.172	33.145	1.00
	16.93	A	N							
	ATOM	3087	CA	VAL	A	415	9.622	10.184	32.847	1.00
	16.73	A	C							
20	ATOM	3088	CB	VAL	A	415	9.472	9.367	31.526	1.00
	17.17	A	C							
	ATOM	3089	CG1	VAL	A	415	8.168	9.660	30.813	1.00
	16.00	A	C							
	ATOM	3090	CG2	VAL	A	415	10.652	9.660	30.622	1.00
	16.72	A	C							
25	ATOM	3091	C	VAL	A	415	8.540	9.769	33.787	1.00
	16.71	A	C							
	ATOM	3092	O	VAL	A	415	8.463	8.634	34.185	1.00
	16.19	A	O							
30	ATOM	3093	N	GLN	A	416	7.684	10.736	34.077	1.00
	16.05	A	N							
	ATOM	3094	CA	GLN	A	416	6.553	10.579	34.989	1.00
	16.43	A	C							

	ATOM	3095	CB	GLN	A	416	6.519	11.747	35.981	1.00
	16.01	A	C							
	ATOM	3096	CG	GLN	A	416	7.786	11.832	36.802	1.00
	16.27	A	C							
5	ATOM	3097	CD	GLN	A	416	7.821	12.929	37.827	1.00
	17.22	A	C							
	ATOM	3098	OE1	GLN	A	416	6.912	13.762	37.905	1.00
	16.47	A	O							
10	ATOM	3099	NE2	GLN	A	416	8.933	12.972	38.601	1.00
	16.72	A	N							
	ATOM	3100	C	GLN	A	416	5.232	10.504	34.235	1.00
	17.01	A	C							
	ATOM	3101	O	GLN	A	416	4.899	11.388	33.440	1.00
	16.94	A	O							
15	ATOM	3102	N	ALA	A	417	4.461	9.462	34.522	1.00
	17.66	A	N							
	ATOM	3103	CA	ALA	A	417	3.122	9.307	33.953	1.00
	18.17	A	C							
20	ATOM	3104	CB	ALA	A	417	2.770	7.857	33.891	1.00
	18.16	A	C							
	ATOM	3105	C	ALA	A	417	2.092	10.083	34.790	1.00
	19.19	A	C							
	ATOM	3106	O	ALA	A	417	1.542	9.565	35.775	1.00
	18.61	A	O							
25	ATOM	3107	N	TYR	A	418	1.859	11.338	34.437	1.00
	19.27	A	N							
	ATOM	3108	CA	TYR	A	418	0.944	12.153	35.234	1.00
	20.10	A	C							
30	ATOM	3109	CB	TYR	A	418	0.985	13.618	34.803	1.00
	20.65	A	C							
	ATOM	3110	CG	TYR	A	418	0.021	14.496	35.570	1.00
	23.36	A	C							

	ATOM	3111	CD1	TYR	A	418	0.255	14.818	36.908	1.00
	26.20	A	C							
	ATOM	3112	CE1	TYR	A	418	-0.645	15.610	37.625	1.00
	29.96	A	C							
5	ATOM	3113	CZ	TYR	A	418	-1.772	16.099	36.990	1.00
	31.45	A	C							
	ATOM	3114	OH	TYR	A	418	-2.659	16.888	37.685	1.00
	34.45	A	O							
10	ATOM	3115	CE2	TYR	A	418	-2.018	15.804	35.652	1.00
	29.32	A	C							
	ATOM	3116	CD2	TYR	A	418	-1.123	15.002	34.957	1.00
	26.35	A	C							
	ATOM	3117	C	TYR	A	418	-0.477	11.623	35.158	1.00
	19.95	A	C							
15	ATOM	3118	O	TYR	A	418	-1.142	11.445	36.190	1.00
	19.83	A	O							
	ATOM	3119	N	ASN	A	419	-0.928	11.332	33.945	1.00
	19.39	A	N							
20	ATOM	3120	CA	ASN	A	419	-2.284	10.855	33.708	1.00
	19.40	A	C							
	ATOM	3121	CB	ASN	A	419	-3.243	12.051	33.629	1.00
	20.03	A	C							
	ATOM	3122	CG	ASN	A	419	-4.705	11.625	33.611	1.00
	21.53	A	C							
25	ATOM	3123	OD1	ASN	A	419	-5.094	10.758	34.354	1.00
	23.42	A	O							
	ATOM	3124	ND2	ASN	A	419	-5.493	12.212	32.727	1.00
	22.67	A	N							
30	ATOM	3125	C	ASN	A	419	-2.374	10.079	32.402	1.00
	19.75	A	C							
	ATOM	3126	O	ASN	A	419	-2.186	10.646	31.317	1.00
	19.24	A	O							

	ATOM	3127	N	VAL A 420	-2.703	8.795	32.486	1.00
	19.24	A	N					
	ATOM	3128	CA	VAL A 420	-2.744	7.948	31.295	1.00
	18.57	A	C					
5	ATOM	3129	CB	VAL A 420	-1.533	6.986	31.288	1.00
	18.55	A	C					
	ATOM	3130	CG1	VAL A 420	-1.504	6.086	30.040	1.00
	17.15	A	C					
10	ATOM	3131	CG2	VAL A 420	-0.196	7.799	31.402	1.00
	20.43	A	C					
	ATOM	3132	C	VAL A 420	-4.067	7.165	31.234	1.00
	18.55	A	C					
	ATOM	3133	O	VAL A 420	-4.109	5.996	31.606	1.00
	18.55	A	O					
15	ATOM	3134	N	PRO A 421	-5.132	7.816	30.776	1.00
	18.79	A	N					
	ATOM	3135	CA	PRO A 421	-6.444	7.169	30.635	1.00
	19.54	A	C					
20	ATOM	3136	CB	PRO A 421	-7.397	8.324	30.288	1.00
	19.65	A	C					
	ATOM	3137	CG	PRO A 421	-6.540	9.394	29.746	1.00
	19.70	A	C					
	ATOM	3138	CD	PRO A 421	-5.175	9.239	30.396	1.00
	18.68	A	C					
25	ATOM	3139	C	PRO A 421	-6.507	6.141	29.530	1.00
	19.68	A	C					
	ATOM	3140	O	PRO A 421	-7.411	5.318	29.565	1.00
	20.15	A	O					
30	ATOM	3141	N	VAL A 422	-5.592	6.178	28.566	1.00
	19.04	A	N					
	ATOM	3142	CA	VAL A 422	-5.594	5.180	27.505	1.00
	18.85	A	C					

	ATOM	3143	CB	VAL	A	422	-5.990	5.781	26.146	1.00
	18.35	A	C							
	ATOM	3144	CG1	VAL	A	422	-6.200	4.653	25.091	1.00
	18.91	A	C							
5	ATOM	3145	CG2	VAL	A	422	-7.264	6.616	26.285	1.00
	18.28	A	C							
	ATOM	3146	C	VAL	A	422	-4.226	4.509	27.448	1.00
	19.38	A	C							
10	ATOM	3147	O	VAL	A	422	-3.435	4.713	26.505	1.00
	18.38	A	O							
	ATOM	3148	N	GLY	A	423	-3.957	3.707	28.480	1.00
	19.46	A	N							
	ATOM	3149	CA	GLY	A	423	-2.642	3.150	28.702	1.00
	19.62	A	C							
15	ATOM	3150	C	GLY	A	423	-2.510	1.665	28.496	1.00
	19.72	A	C							
	ATOM	3151	O	GLY	A	423	-3.464	0.954	28.162	1.00
	21.71	A	O							
20	ATOM	3152	N	PRO	A	424	-1.307	1.174	28.695	1.00
	19.10	A	N							
	ATOM	3153	CA	PRO	A	424	-0.142	1.999	29.040	1.00
	17.55	A	C							
	ATOM	3154	CB	PRO	A	424	0.876	0.969	29.467	1.00
	18.01	A	C							
25	ATOM	3155	CG	PRO	A	424	0.510	-0.258	28.696	1.00
	19.87	A	C							
	ATOM	3156	CD	PRO	A	424	-0.988	-0.267	28.649	1.00
	19.26	A	C							
30	ATOM	3157	C	PRO	A	424	0.396	2.842	27.899	1.00
	16.87	A	C							
	ATOM	3158	O	PRO	A	424	0.038	2.660	26.733	1.00
	17.20	A	O							

	ATOM	3159	N	GLN	A	425	1.248	3.798	28.239	1.00
	15.38	A	N							
	ATOM	3160	CA	GLN	A	425	1.848	4.678	27.240	1.00
	14.36	A	C							
5	ATOM	3161	CB	GLN	A	425	1.507	6.140	27.559	1.00
	14.88	A	C							
	ATOM	3162	CG	GLN	A	425	2.070	7.202	26.576	1.00
	14.70	A	C							
10	ATOM	3163	CD	GLN	A	425	1.512	7.043	25.180	1.00
	16.71	A	C							
	ATOM	3164	OE1	GLN	A	425	0.321	7.321	24.956	1.00
	15.27	A	O							
	ATOM	3165	NE2	GLN	A	425	2.349	6.580	24.235	1.00
	11.93	A	N							
15	ATOM	3166	C	GLN	A	425	3.341	4.470	27.252	1.00
	13.10	A	C							
	ATOM	3167	O	GLN	A	425	3.987	4.662	28.283	1.00
	12.18	A	O							
20	ATOM	3168	N	THR	A	426	3.887	4.036	26.112	1.00
	12.88	A	N							
	ATOM	3169	CA	THR	A	426	5.320	4.008	25.913	1.00
	12.90	A	C							
	ATOM	3170	CB	THR	A	426	5.737	2.949	24.890	1.00
	12.37	A	C							
25	ATOM	3171	OG1	THR	A	426	5.134	3.254	23.626	1.00
	12.70	A	O							
	ATOM	3172	CG2	THR	A	426	5.232	1.573	25.283	1.00
	13.56	A	C							
30	ATOM	3173	C	THR	A	426	5.796	5.370	25.413	1.00
	13.16	A	C							
	ATOM	3174	O	THR	A	426	4.986	6.223	25.037	1.00
	14.38	A	O							

	ATOM	3175	N	PHE	A	427	7.115	5.551	25.401	1.00
	12.86	A	N							
	ATOM	3176	CA	PHE	A	427	7.741	6.823	25.036	1.00
	12.44	A	C							
5	ATOM	3177	CB	PHE	A	427	7.802	7.778	26.240	1.00
	12.42	A	C							
	ATOM	3178	CG	PHE	A	427	8.612	7.235	27.366	1.00
	12.82	A	C							
10	ATOM	3179	CD1	PHE	A	427	9.988	7.361	27.365	1.00
	15.21	A	C							
	ATOM	3180	CE1	PHE	A	427	10.768	6.801	28.381	1.00
	15.74	A	C							
	ATOM	3181	CZ	PHE	A	427	10.161	6.102	29.408	1.00
	14.88	A	C							
15	ATOM	3182	CE2	PHE	A	427	8.766	5.987	29.427	1.00
	16.39	A	C							
	ATOM	3183	CD2	PHE	A	427	8.000	6.538	28.407	1.00
	14.33	A	C							
20	ATOM	3184	C	PHE	A	427	9.149	6.532	24.549	1.00
	12.14	A	C							
	ATOM	3185	O	PHE	A	427	9.694	5.444	24.807	1.00
	11.55	A	O							
	ATOM	3186	N	SER	A	428	9.721	7.523	23.867	1.00
	11.59	A	N							
25	ATOM	3187	CA	SER	A	428	11.116	7.528	23.480	1.00
	11.99	A	C							
	ATOM	3188	CB	SER	A	428	11.292	7.463	21.965	1.00
	12.17	A	C							
30	ATOM	3189	OG	SER	A	428	10.837	6.219	21.442	1.00
	12.32	A	O							
	ATOM	3190	C	SER	A	428	11.804	8.776	24.031	1.00
	12.57	A	C							

	ATOM	3191	O	SER	A	428	11.174	9.829	24.263	1.00
	11.91	A	O							
	ATOM	3192	N	LEU	A	429	13.103	8.620	24.278	1.00
	12.35	A	N							
5	ATOM	3193	CA	LEU	A	429	13.950	9.712	24.714	1.00
	12.57	A	C							
	ATOM	3194	CB	LEU	A	429	14.508	9.476	26.135	1.00
	12.84	A	C							
10	ATOM	3195	CG	LEU	A	429	13.542	9.648	27.296	1.00
	13.77	A	C							
	ATOM	3196	CD1	LEU	A	429	14.046	8.907	28.520	1.00
	15.69	A	C							
	ATOM	3197	CD2	LEU	A	429	13.348	11.110	27.609	1.00
	15.64	A	C							
15	ATOM	3198	C	LEU	A	429	15.098	9.756	23.768	1.00
	11.82	A	C							
	ATOM	3199	O	LEU	A	429	15.593	8.707	23.372	1.00
	11.44	A	O							
20	ATOM	3200	N	ALA	A	430	15.532	10.957	23.405	1.00
	11.55	A	N							
	ATOM	3201	CA	ALA	A	430	16.805	11.139	22.699	1.00
	11.87	A	C							
	ATOM	3202	CB	ALA	A	430	16.581	11.528	21.235	1.00
	12.63	A	C							
25	ATOM	3203	C	ALA	A	430	17.613	12.215	23.404	1.00
	12.76	A	C							
	ATOM	3204	O	ALA	A	430	17.072	13.256	23.776	1.00
	12.14	A	O							
30	ATOM	3205	N	ILE	A	431	18.907	11.943	23.584	1.00
	12.52	A	N							
	ATOM	3206	CA	ILE	A	431	19.813	12.835	24.287	1.00
	13.32	A	C							

	ATOM	3207	CB	ILE	A	431	20.325	12.179	25.593	1.00
	13.00	A	C							
	ATOM	3208	CG1	ILE	A	431	19.175	11.882	26.542	1.00
	14.30	A	C							
5	ATOM	3209	CD1	ILE	A	431	19.575	11.061	27.776	1.00
	16.21	A	C							
	ATOM	3210	CG2	ILE	A	431	21.292	13.123	26.288	1.00
	14.86	A	C							
10	ATOM	3211	C	ILE	A	431	21.005	13.176	23.392	1.00
	12.92	A	C							
	ATOM	3212	O	ILE	A	431	21.728	12.288	22.937	1.00
	11.26	A	O							
	ATOM	3213	N	VAL	A	432	21.192	14.464	23.134	1.00
	13.80	A	N							
15	ATOM	3214	CA	VAL	A	432	22.387	14.966	22.483	1.00
	15.20	A	C							
	ATOM	3215	CB	VAL	A	432	22.028	15.996	21.387	1.00
	15.89	A	C							
20	ATOM	3216	CG1	VAL	A	432	23.293	16.591	20.809	1.00
	15.25	A	C							
	ATOM	3217	CG2	VAL	A	432	21.167	15.361	20.293	1.00
	15.39	A	C							
	ATOM	3218	C	VAL	A	432	23.346	15.634	23.498	1.00
	16.38	A	C							
25	ATOM	3219	O	VAL	A	432	22.923	16.472	24.298	1.00
	16.49	A	O							
	ATOM	3220	N	HIS	A	433	24.633	15.257	23.458	1.00
	17.45	A	N							
30	ATOM	3221	CA	HIS	A	433	25.669	15.872	24.306	1.00
	18.55	A	C							
	ATOM	3222	CB	HIS	A	433	25.637	15.240	25.711	1.00
	19.21	A	C							

	ATOM	3223	CG	HIS	A	433	26.553	15.885	26.707	1.00
	19.32	A	C							
	ATOM	3224	ND1	HIS	A	433	26.497	17.233	27.015	1.00
	18.22	A	N							
5	ATOM	3225	CE1	HIS	A	433	27.378	17.497	27.969	1.00
	18.90	A	C							
	ATOM	3226	NE2	HIS	A	433	27.999	16.380	28.289	1.00
	16.51	A	N							
10	ATOM	3227	CD2	HIS	A	433	27.502	15.353	27.513	1.00
	17.65	A	C							
	ATOM	3228	C	HIS	A	433	27.031	15.627	23.684	1.00
	19.74	A	C							
	ATOM	3229	O	HIS	A	433	27.664	16.546	23.133	1.00
	21.68	A	O							
15	ATOM	3230	OXT	HIS	A	433	27.463	14.480	23.735	1.00
	19.29	A	O							
	TER	3230		HIS	A	433				
	HETATM	3231	CA	CA	A	601	15.429	35.876	3.369	1.00
	16.92	A	CA							
20	HETATM	3232	CA	CA	A	602	3.346	16.597	30.346	1.00
	13.45	A	CA							
	HETATM	3233	CA	CA	A	603	9.615	28.353	34.891	1.00
	17.30	A	CA							
25	ATOM	3234	N	ASP	B	16	3.955	53.303	-10.201	1.00
	49.01	B	N							
	ATOM	3235	CA	ASP	B	16	4.171	51.870	-9.771	1.00
	49.32	B	C							
	ATOM	3236	CB	ASP	B	16	5.553	51.425	-10.270	1.00
	49.78	B	C							
30	ATOM	3237	CG	ASP	B	16	6.176	52.438	-11.248	1.00
	52.12	B	C							
	ATOM	3238	OD1	ASP	B	16	5.667	52.549	-12.399	1.00
	54.86	B	O							

	ATOM	3239	OD2	ASP	B	16	7.151	53.181	-10.957	1.00
	52.51	B	O							
	ATOM	3240	C	ASP	B	16	4.009	51.690	-8.232	1.00
	48.45	B	C							
5	ATOM	3241	O	ASP	B	16	4.793	50.996	-7.567	1.00
	47.87	B	O							
	ATOM	3242	N	ARG	B	17	2.959	52.301	-7.687	1.00
	47.87	B	N							
10	ATOM	3243	CA	ARG	B	17	2.863	52.592	-6.247	1.00
	47.30	B	C							
	ATOM	3244	CB	ARG	B	17	2.430	54.064	-6.059	1.00
	46.77	B	C							
	ATOM	3245	CG	ARG	B	17	3.107	55.055	-7.028	1.00
	44.50	B	C							
15	ATOM	3246	CD	ARG	B	17	2.860	56.528	-6.691	1.00
	39.98	B	C							
	ATOM	3247	NE	ARG	B	17	3.266	56.891	-5.335	1.00
	33.05	B	N							
20	ATOM	3248	CZ	ARG	B	17	4.483	57.334	-5.001	1.00
	29.36	B	C							
	ATOM	3249	NH1	ARG	B	17	5.440	57.459	-5.915	1.00
	28.07	B	N							
	ATOM	3250	NH2	ARG	B	17	4.752	57.650	-3.740	1.00
	24.57	B	N							
25	ATOM	3251	C	ARG	B	17	1.917	51.699	-5.415	1.00
	48.01	B	C							
	ATOM	3252	O	ARG	B	17	1.463	52.120	-4.342	1.00
	47.42	B	O							
30	ATOM	3253	N	HIS	B	18	1.616	50.486	-5.885	1.00
	48.51	B	N							
	ATOM	3254	CA	HIS	B	18	0.770	49.573	-5.108	1.00
	48.98	B	C							

	ATOM	3255	CB	HIS	B	18	0.515	48.266	-5.875	1.00
	49.29	B	C							
	ATOM	3256	CG	HIS	B	18	-0.510	48.388	-6.961	1.00
	50.05	B	C							
5	ATOM	3257	ND1	HIS	B	18	-0.195	48.803	-8.238	1.00
	51.24	B	N							
	ATOM	3258	CE1	HIS	B	18	-1.291	48.814	-8.979	1.00
	51.27	B	C							
	ATOM	3259	NE2	HIS	B	18	-2.305	48.419	-8.228	1.00
10	50.69	B	N							
	ATOM	3260	CD2	HIS	B	18	-1.844	48.147	-6.962	1.00
	50.64	B	C							
	ATOM	3261	C	HIS	B	18	1.429	49.229	-3.770	1.00
	49.16	B	C							
15	ATOM	3262	O	HIS	B	18	2.598	48.822	-3.738	1.00
	49.03	B	O							
	ATOM	3263	N	ASN	B	19	0.690	49.386	-2.667	1.00
	49.15	B	N							
	ATOM	3264	CA	ASN	B	19	1.167	48.868	-1.384	1.00
20	49.11	B	C							
	ATOM	3265	CB	ASN	B	19	0.276	49.313	-0.205	1.00
	49.60	B	C							
	ATOM	3266	CG	ASN	B	19	0.951	49.099	1.176	1.00
	51.24	B	C							
25	ATOM	3267	OD1	ASN	B	19	0.415	48.415	2.058	1.00
	53.59	B	O							
	ATOM	3268	ND2	ASN	B	19	2.123	49.705	1.363	1.00
	54.56	B	N							
	ATOM	3269	C	ASN	B	19	1.241	47.332	-1.459	1.00
30	48.22	B	C							
	ATOM	3270	O	ASN	B	19	0.443	46.685	-2.138	1.00
	47.43	B	O							

	ATOM	3271	N	LEU	B	20	2.221	46.772	-0.762	1.00
	47.20	B	N							
	ATOM	3272	CA	LEU	B	20	2.393	45.333	-0.689	1.00
	46.38	B	C							
5	ATOM	3273	CB	LEU	B	20	3.743	45.000	-0.055	1.00
	46.97	B	C							
	ATOM	3274	CG	LEU	B	20	4.896	45.800	-0.684	1.00
	48.40	B	C							
10	ATOM	3275	CD1	LEU	B	20	6.201	45.666	0.117	1.00
	49.54	B	C							
	ATOM	3276	CD2	LEU	B	20	5.076	45.391	-2.158	1.00
	48.69	B	C							
	ATOM	3277	C	LEU	B	20	1.235	44.792	0.141	1.00
	44.75	B	C							
15	ATOM	3278	O	LEU	B	20	1.113	45.092	1.342	1.00
	45.26	B	O							
	ATOM	3279	N	LYS	B	21	0.338	44.073	-0.523	1.00
	41.97	B	N							
20	ATOM	3280	CA	LYS	B	21	-0.740	43.395	0.170	1.00
	39.98	B	C							
	ATOM	3281	CB	LYS	B	21	-2.088	44.025	-0.183	1.00
	40.54	B	C							
	ATOM	3282	CG	LYS	B	21	-3.225	43.550	0.700	1.00
	41.63	B	C							
25	ATOM	3283	CD	LYS	B	21	-4.257	44.620	0.878	1.00
	43.44	B	C							
	ATOM	3284	CE	LYS	B	21	-5.391	44.131	1.718	1.00
	44.82	B	C							
30	ATOM	3285	NZ	LYS	B	21	-4.992	44.004	3.147	1.00
	47.17	B	N							
	ATOM	3286	C	LYS	B	21	-0.710	41.917	-0.214	1.00
	37.09	B	C							

	ATOM	3287	O	LYS	B	21	-0.679	41.588	-1.395	1.00
	35.80	B	O							
	ATOM	3288	N	THR	B	22	-0.685	41.045	0.796	1.00
	33.91	B	N							
5	ATOM	3289	CA	THR	B	22	-0.642	39.592	0.593	1.00
	31.44	B	C							
	ATOM	3290	CB	THR	B	22	0.734	39.046	1.030	1.00
	31.70	B	C							
10	ATOM	3291	OG1	THR	B	22	1.002	39.436	2.387	1.00
	31.47	B	O							
	ATOM	3292	CG2	THR	B	22	1.857	39.681	0.211	1.00
	31.30	B	C							
	ATOM	3293	C	THR	B	22	-1.739	38.843	1.342	1.00
	29.57	B	C							
15	ATOM	3294	O	THR	B	22	-1.830	37.617	1.246	1.00
	28.17	B	O							
	ATOM	3295	N	GLU	B	23	-2.542	39.576	2.107	1.00
	27.46	B	N							
20	ATOM	3296	CA	GLU	B	23	-3.672	39.011	2.828	1.00
	27.22	B	C							
	ATOM	3297	CB	BGLU	B	23	-3.280	38.728	4.282	0.50
	27.51	B	C							
	ATOM	3298	CB	AGLU	B	23	-3.287	38.646	4.277	0.50
	27.17	B	C							
25	ATOM	3299	CG	BGLU	B	23	-2.826	37.304	4.512	0.50
	29.10	B	C							
	ATOM	3300	CG	AGLU	B	23	-3.050	39.822	5.223	0.50
	27.55	B	C							
30	ATOM	3301	CD	BGLU	B	23	-2.236	37.062	5.891	0.50
	30.84	B	C							
	ATOM	3302	CD	AGLU	B	23	-3.020	39.396	6.689	0.50
	28.07	B	C							

5	ATOM	3303	OE1BGLU	B	23	-1.959	38.040	6.614	0.50	
	32.02	B	O							
	ATOM	3304	OE1AGLU	B	23	-2.853	38.186	6.954	0.50	
	28.41	B	O							
10	ATOM	3305	OE2BGLU	B	23	-2.054	35.879	6.241	0.50	
	31.16	B	O							
	ATOM	3306	OE2AGLU	B	23	-3.182	40.264	7.579	0.50	
	28.60	B	O							
15	ATOM	3307	C	GLU	B	23	-4.842	39.988	2.799	1.00
	25.94	B	C							
	ATOM	3308	O	GLU	B	23	-4.631	41.199	2.805	1.00
	25.17	B	O							
20	ATOM	3309	N	TRP	B	24	-6.065	39.462	2.765	1.00
	24.57	B	N							
	ATOM	3310	CA	TRP	B	24	-7.264	40.300	2.708	1.00
	23.89	B	C							
25	ATOM	3311	CB	TRP	B	24	-7.910	40.174	1.304	1.00
	23.59	B	C							
	ATOM	3312	CG	TRP	B	24	-7.105	40.786	0.245	1.00
	21.71	B	C							
30	ATOM	3313	CD1	TRP	B	24	-7.232	42.050	-0.239	1.00
	21.02	B	C							
	ATOM	3314	NE1	TRP	B	24	-6.293	42.276	-1.211	1.00
	18.62	B	N							
	ATOM	3315	CE2	TRP	B	24	-5.544	41.148	-1.396	1.00
	19.02	B	C							
	ATOM	3316	CD2	TRP	B	24	-6.006	40.190	-0.480	1.00
	20.72	B	C							
	ATOM	3317	CE3	TRP	B	24	-5.387	38.941	-0.454	1.00
	19.49	B	C							
	ATOM	3318	CZ3	TRP	B	24	-4.326	38.694	-1.313	1.00
	20.25	B	C							

	ATOM	3319	CH2	TRP	B	24	-3.883	39.662	-2.207	1.00
	21.63	B	C							
	ATOM	3320	CZ2	TRP	B	24	-4.477	40.911	-2.257	1.00
	22.09	B	C							
5	ATOM	3321	C	TRP	B	24	-8.294	39.948	3.789	1.00
	23.91	B	C							
	ATOM	3322	O	TRP	B	24	-9.369	39.456	3.467	1.00
	22.74	B	O							
10	ATOM	3323	N	PRO	B	25	-7.986	40.196	5.070	1.00
	24.64	B	N							
	ATOM	3324	CA	PRO	B	25	-8.918	39.850	6.161	1.00
	25.12	B	C							
	ATOM	3325	CB	PRO	B	25	-8.176	40.312	7.448	1.00
	25.87	B	C							
15	ATOM	3326	CG	PRO	B	25	-7.011	41.163	7.002	1.00
	26.08	B	C							
	ATOM	3327	CD	PRO	B	25	-6.737	40.807	5.562	1.00
	25.49	B	C							
20	ATOM	3328	C	PRO	B	25	-10.307	40.520	6.029	1.00
	25.18	B	C							
	ATOM	3329	O	PRO	B	25	-11.310	39.978	6.469	1.00
	24.94	B	O							
	ATOM	3330	N	GLU	B	26	-10.350	41.668	5.364	1.00
	25.43	B	N							
25	ATOM	3331	CA	GLU	B	26	-11.581	42.416	5.141	1.00
	25.93	B	C							
	ATOM	3332	CB	GLU	B	26	-11.243	43.829	4.627	1.00
	26.70	B	C							
30	ATOM	3333	CG	GLU	B	26	-10.690	43.922	3.189	1.00
	28.62	B	C							
	ATOM	3334	CD	GLU	B	26	-9.169	43.775	3.077	1.00
	29.61	B	C							

	ATOM	3335	OE1	GLU	B	26	-8.535	43.174	3.985	1.00
	28.68	B	O							
	ATOM	3336	OE2	GLU	B	26	-8.608	44.252	2.057	1.00
	31.71	B	O							
5	ATOM	3337	C	GLU	B	26	-12.571	41.705	4.193	1.00
	25.60	B	C							
	ATOM	3338	O	GLU	B	26	-13.746	42.060	4.139	1.00
	24.75	B	O							
10	ATOM	3339	N	LEU	B	27	-12.119	40.672	3.483	1.00
	24.52	B	N							
	ATOM	3340	CA	LEU	B	27	-12.957	40.024	2.483	1.00
	23.54	B	C							
	ATOM	3341	CB	LEU	B	27	-12.104	39.593	1.287	1.00
	23.84	B	C							
15	ATOM	3342	CG	LEU	B	27	-11.506	40.722	0.430	1.00
	23.08	B	C							
	ATOM	3343	CD1	LEU	B	27	-10.702	40.165	-0.732	1.00
	22.31	B	C							
20	ATOM	3344	CD2	LEU	B	27	-12.603	41.624	-0.097	1.00
	23.37	B	C							
	ATOM	3345	C	LEU	B	27	-13.716	38.829	3.042	1.00
	23.75	B	C							
	ATOM	3346	O	LEU	B	27	-14.504	38.205	2.334	1.00
	23.33	B	O							
25	ATOM	3347	N	VAL	B	28	-13.490	38.504	4.312	1.00
	23.89	B	N							
	ATOM	3348	CA	VAL	B	28	-14.143	37.357	4.918	1.00
	24.64	B	C							
30	ATOM	3349	CB	VAL	B	28	-13.571	37.050	6.359	1.00
	24.78	B	C							
	ATOM	3350	CG1	VAL	B	28	-14.359	35.963	7.027	1.00
	25.39	B	C							

	ATOM	3351	CG2	VAL	B	28	-12.099	36.634	6.272	1.00
	25.78	B	C							
	ATOM	3352	C	VAL	B	28	-15.612	37.694	4.992	1.00
	24.75	B	C							
5	ATOM	3353	O	VAL	B	28	-15.952	38.791	5.424	1.00
	25.68	B	O							
	ATOM	3354	N	GLY	B	29	-16.468	36.797	4.516	1.00
	24.86	B	N							
10	ATOM	3355	CA	GLY	B	29	-17.916	37.000	4.539	1.00
	24.80	B	C							
	ATOM	3356	C	GLY	B	29	-18.493	37.638	3.274	1.00
	25.07	B	C							
	ATOM	3357	O	GLY	B	29	-19.692	37.598	3.061	1.00
	25.27	B	O							
15	ATOM	3358	N	LYS	B	30	-17.630	38.203	2.429	1.00
	25.21	B	N							
	ATOM	3359	CA	LYS	B	30	-18.025	38.782	1.146	1.00
	24.62	B	C							
20	ATOM	3360	CB	LYS	B	30	-16.952	39.780	0.679	1.00
	25.65	B	C							
	ATOM	3361	CG	LYS	B	30	-16.716	40.964	1.606	1.00
	28.42	B	C							
	ATOM	3362	CD	LYS	B	30	-16.577	42.245	0.785	1.00
	34.26	B	C							
25	ATOM	3363	CE	LYS	B	30	-16.462	43.527	1.631	1.00
	35.92	B	C							
	ATOM	3364	NZ	LYS	B	30	-15.996	43.273	3.011	1.00
	37.72	B	N							
30	ATOM	3365	C	LYS	B	30	-18.188	37.728	0.065	1.00
	23.30	B	C							
	ATOM	3366	O	LYS	B	30	-17.670	36.623	0.166	1.00
	22.29	B	O							

	ATOM	3367	N	SER	B	31	-18.884	38.089	-1.001	1.00
	21.94	B	N							
	ATOM	3368	CA	SER	B	31	-19.036	37.204	-2.145	1.00
	20.89	B	C							
5	ATOM	3369	CB	SER	B	31	-20.046	37.776	-3.143	1.00
	21.21	B	C							
	ATOM	3370	OG	SER	B	31	-19.519	38.912	-3.815	1.00
	20.40	B	O							
10	ATOM	3371	C	SER	B	31	-17.726	37.017	-2.865	1.00
	19.88	B	C							
	ATOM	3372	O	SER	B	31	-16.828	37.843	-2.800	1.00
	18.67	B	O							
	ATOM	3373	N	VAL	B	32	-17.649	35.920	-3.588	1.00
	20.34	B	N							
15	ATOM	3374	CA	VAL	B	32	-16.487	35.617	-4.393	1.00
	20.89	B	C							
	ATOM	3375	CB	BVAL	B	32	-16.717	34.256	-5.141	0.50
	20.94	B	C							
20	ATOM	3376	CB	AVAL	B	32	-16.555	34.234	-5.043	0.50
	21.07	B	C							
	ATOM	3377	CG1	BVAL	B	32	-16.023	34.221	-6.524	0.50
	20.85	B	C							
	ATOM	3378	CG1	AVAL	B	32	-17.648	34.180	-6.069	0.50
	20.79	B	C							
25	ATOM	3379	CG2	BVAL	B	32	-16.276	33.087	-4.281	0.50
	20.73	B	C							
	ATOM	3380	CG2	AVAL	B	32	-15.193	33.903	-5.657	0.50
	21.36	B	C							
30	ATOM	3381	C	VAL	B	32	-16.238	36.732	-5.431	1.00
	20.83	B	C							
	ATOM	3382	O	VAL	B	32	-15.100	37.105	-5.681	1.00
	20.37	B	O							

	ATOM 21.19	3383 B	N N	GLU B	33	-17.316	37.263	-6.011	1.00
	ATOM 21.20	3384 B	CA C	GLU B	33	-17.205	38.264	-7.072	1.00
5	ATOM 21.59	3385 B	CB C	GLU B	33	-18.553	38.478	-7.767	1.00
	ATOM 24.67	3386 B	CG C	GLU B	33	-19.045	37.271	-8.543	1.00
10	ATOM 29.01	3387 B	CD C	GLU B	33	-19.799	36.219	-7.708	1.00
	ATOM 36.54	3388 B	OE1 O	GLU B	33	-20.001	35.123	-8.275	1.00
	ATOM 27.78	3389 B	OE2 O	GLU B	33	-20.187	36.437	-6.517	1.00
15	ATOM 20.62	3390 B	C C	GLU B	33	-16.688	39.571	-6.497	1.00
	ATOM 20.20	3391 B	O O	GLU B	33	-15.885	40.255	-7.130	1.00
20	ATOM 20.61	3392 B	N N	GLU B	34	-17.124	39.910	-5.283	1.00
	ATOM 20.97	3393 B	CA C	GLU B	34	-16.627	41.131	-4.634	1.00
	ATOM 21.10	3394 B	CB C	GLU B	34	-17.456	41.533	-3.407	1.00
25	ATOM 25.82	3395 B	CG C	GLU B	34	-18.778	42.224	-3.722	1.00
	ATOM 31.16	3396 B	CD C	GLU B	34	-18.615	43.546	-4.481	1.00
30	ATOM 32.84	3397 B	OE1 O	GLU B	34	-17.968	44.484	-3.932	1.00
	ATOM 33.71	3398 B	OE2 O	GLU B	34	-19.135	43.645	-5.626	1.00

	ATOM	3399	C	GLU	B	34	-15.156	40.951	-4.257	1.00
	19.67	B	C							
	ATOM	3400	O	GLU	B	34	-14.340	41.858	-4.438	1.00
	18.91	B	O							
5	ATOM	3401	N	ALA	B	35	-14.809	39.775	-3.765	1.00
	19.75	B	N							
	ATOM	3402	CA	ALA	B	35	-13.414	39.485	-3.401	1.00
	19.10	B	C							
10	ATOM	3403	CB	ALA	B	35	-13.311	38.127	-2.749	1.00
	19.66	B	C							
	ATOM	3404	C	ALA	B	35	-12.457	39.581	-4.582	1.00
	18.90	B	C							
	ATOM	3405	O	ALA	B	35	-11.387	40.183	-4.470	1.00
	18.82	B	O							
15	ATOM	3406	N	LYS	B	36	-12.839	38.993	-5.716	1.00
	18.68	B	N							
	ATOM	3407	CA	LYS	B	36	-11.991	38.978	-6.894	1.00
	18.17	B	C							
20	ATOM	3408	CB	LYS	B	36	-12.659	38.220	-8.063	1.00
	18.44	B	C							
	ATOM	3409	CG	LYS	B	36	-12.714	36.693	-7.928	1.00
	19.56	B	C							
	ATOM	3410	CD	LYS	B	36	-13.304	36.026	-9.159	1.00
	20.72	B	C							
25	ATOM	3411	CE	LYS	B	36	-13.194	34.496	-9.136	1.00
	22.32	B	C							
	ATOM	3412	NZ	LYS	B	36	-13.963	33.865	-10.274	1.00
	20.54	B	N							
30	ATOM	3413	C	LYS	B	36	-11.648	40.406	-7.316	1.00
	17.67	B	C							
	ATOM	3414	O	LYS	B	36	-10.500	40.694	-7.681	1.00
	17.81	B	O							

	ATOM	3415	N	LYS	B	37	-12.614	41.316	-7.254	1.00
	17.52	B	N							
	ATOM	3416	CA	LYS	B	37	-12.345	42.667	-7.746	1.00
	17.89	B	C							
5	ATOM	3417	CB	LYS	B	37	-13.621	43.519	-7.870	1.00
	17.35	B	C							
	ATOM	3418	CG	LYS	B	37	-14.544	43.165	-9.036	1.00
	17.43	B	C							
10	ATOM	3419	CD	LYS	B	37	-15.847	44.074	-9.064	1.00
	15.06	B	C							
	ATOM	3420	CE	LYS	B	37	-16.801	43.812	-7.921	1.00
	16.48	B	C							
	ATOM	3421	NZ	LYS	B	37	-18.031	44.685	-7.989	1.00
	15.66	B	N							
15	ATOM	3422	C	LYS	B	37	-11.333	43.372	-6.852	1.00
	18.04	B	C							
	ATOM	3423	O	LYS	B	37	-10.499	44.126	-7.354	1.00
	18.33	B	O							
20	ATOM	3424	N	VAL	B	38	-11.436	43.174	-5.535	1.00
	17.93	B	N							
	ATOM	3425	CA	VAL	B	38	-10.525	43.824	-4.595	1.00
	18.53	B	C							
	ATOM	3426	CB	VAL	B	38	-11.024	43.636	-3.136	1.00
	19.32	B	C							
25	ATOM	3427	CG1	VAL	B	38	-9.975	44.055	-2.128	1.00
	21.52	B	C							
	ATOM	3428	CG2	VAL	B	38	-12.310	44.445	-2.919	1.00
	20.73	B	C							
30	ATOM	3429	C	VAL	B	38	-9.122	43.270	-4.742	1.00
	18.91	B	C							
	ATOM	3430	O	VAL	B	38	-8.135	44.013	-4.797	1.00
	17.79	B	O							

	ATOM 19.11	3431 B	N N	ILE B	39	-9.033	41.947	-4.830	1.00
	ATOM 19.64	3432 B	CA C	ILE B	39	-7.747	41.304	-5.009	1.00
5	ATOM 19.43	3433 B	CB C	ILE B	39	-7.919	39.764	-4.973	1.00
	ATOM 20.37	3434 B	CG1 C	ILE B	39	-8.288	39.324	-3.573	1.00
10	ATOM 21.36	3435 B	CD1 C	ILE B	39	-8.994	37.995	-3.564	1.00
	ATOM 19.76	3436 B	CG2 C	ILE B	39	-6.657	39.024	-5.470	1.00
	ATOM 19.71	3437 B	C C	ILE B	39	-7.077	41.759	-6.287	1.00
15	ATOM 19.70	3438 B	O O	ILE B	39	-5.877	42.087	-6.266	1.00
	ATOM 19.22	3439 B	N N	LEU B	40	-7.816	41.785	-7.404	1.00
20	ATOM 19.62	3440 B	CA C	LEU B	40	-7.205	42.231	-8.664	1.00
	ATOM 19.18	3441 B	CB C	LEU B	40	-8.100	41.927	-9.888	1.00
	ATOM 20.23	3442 B	CG C	LEU B	40	-8.145	40.416	-10.190	1.00
25	ATOM 19.43	3443 B	CD1 C	LEU B	40	-9.235	40.047	-11.123	1.00
	ATOM 21.26	3444 B	CD2 C	LEU B	40	-6.799	39.947	-10.725	1.00
30	ATOM 19.20	3445 B	C C	LEU B	40	-6.840	43.716	-8.608	1.00
	ATOM 19.48	3446 B	O O	LEU B	40	-5.939	44.144	-9.300	1.00

	ATOM 19.70	3447 B	N N	GLN B	41	-7.553	44.494	-7.803	1.00
	ATOM 20.69	3448 B	CA C	GLN B	41	-7.216	45.914	-7.622	1.00
5	ATOM 20.30	3449 B	CB C	GLN B	41	-8.286	46.641	-6.813	1.00
	ATOM 20.90	3450 B	CG C	GLN B	41	-8.068	48.173	-6.731	1.00
10	ATOM 21.54	3451 B	CD C	GLN B	41	-8.159	48.842	-8.083	1.00
	ATOM 23.88	3452 B	OE1 O	GLN B	41	-9.070	48.529	-8.858	1.00
	ATOM 20.95	3453 B	NE2 N	GLN B	41	-7.224	49.762	-8.384	1.00
15	ATOM 22.10	3454 B	C C	GLN B	41	-5.880	46.050	-6.906	1.00
	ATOM 22.64	3455 B	O O	GLN B	41	-5.105	46.941	-7.213	1.00
20	ATOM 22.70	3456 B	N N	ASP B	42	-5.625	45.149	-5.955	1.00
	ATOM 23.28	3457 B	CA C	ASP B	42	-4.396	45.178	-5.161	1.00
	ATOM 22.77	3458 B	CB C	ASP B	42	-4.654	44.531	-3.800	1.00
25	ATOM 24.12	3459 B	CG C	ASP B	42	-5.531	45.369	-2.928	1.00
	ATOM 27.20	3460 B	OD1 O	ASP B	42	-5.619	46.599	-3.174	1.00
30	ATOM 25.78	3461 B	OD2 O	ASP B	42	-6.206	44.899	-1.991	1.00
	ATOM 23.19	3462 B	C C	ASP B	42	-3.273	44.438	-5.859	1.00

	ATOM	3463	O	ASP	B	42	-2.103	44.761	-5.700	1.00
	24.27	B	O							
	ATOM	3464	N	LYS	B	43	-3.629	43.444	-6.655	1.00
	22.96	B	N							
5	ATOM	3465	CA	LYS	B	43	-2.634	42.541	-7.203	1.00
	23.10	B	C							
	ATOM	3466	CB	LYS	B	43	-2.508	41.291	-6.299	1.00
	23.07	B	C							
10	ATOM	3467	CG	LYS	B	43	-1.376	40.306	-6.701	1.00
	23.16	B	C							
	ATOM	3468	CD	LYS	B	43	-1.348	39.100	-5.750	1.00
	24.15	B	C							
	ATOM	3469	CE	LYS	B	43	-0.391	37.996	-6.217	1.00
	25.40	B	C							
15	ATOM	3470	NZ	LYS	B	43	1.031	38.403	-6.170	1.00
	25.72	B	N							
	ATOM	3471	C	LYS	B	43	-3.067	42.157	-8.593	1.00
	23.00	B	C							
20	ATOM	3472	O	LYS	B	43	-3.672	41.107	-8.782	1.00
	22.17	B	O							
	ATOM	3473	N	PRO	B	44	-2.772	43.010	-9.571	1.00
	24.07	B	N							
	ATOM	3474	CA	PRO	B	44	-3.282	42.826	-10.948	1.00
	24.35	B	C							
25	ATOM	3475	CB	PRO	B	44	-2.632	43.985	-11.735	1.00
	24.65	B	C							
	ATOM	3476	CG	PRO	B	44	-2.197	44.997	-10.702	1.00
	25.50	B	C							
30	ATOM	3477	CD	PRO	B	44	-1.960	44.238	-9.415	1.00
	24.73	B	C							
	ATOM	3478	C	PRO	B	44	-2.929	41.486	-11.583	1.00
	24.65	B	C							

	ATOM	3479	O	PRO	B	44	-3.680	40.967	-12.409	1.00
	25.49	B	O							
	ATOM	3480	N	GLU	B	45	-1.778	40.935	-11.206	1.00
	25.20	B	N							
5	ATOM	3481	CA	GLU	B	45	-1.310	39.651	-11.725	1.00
	25.70	B	C							
	ATOM	3482	CB	GLU	B	45	0.226	39.599	-11.602	1.00
	26.83	B	C							
10	ATOM	3483	CG	GLU	B	45	0.764	39.243	-10.206	1.00
	28.74	B	C							
	ATOM	3484	CD	GLU	B	45	0.925	40.423	-9.262	1.00
	32.92	B	C							
	ATOM	3485	OE1	GLU	B	45	1.667	40.252	-8.253	1.00
	34.10	B	O							
15	ATOM	3486	OE2	GLU	B	45	0.316	41.511	-9.488	1.00
	33.16	B	O							
	ATOM	3487	C	GLU	B	45	-1.945	38.404	-11.048	1.00
	25.32	B	C							
20	ATOM	3488	O	GLU	B	45	-1.679	37.270	-11.452	1.00
	25.52	B	O							
	ATOM	3489	N	ALA	B	46	-2.788	38.593	-10.034	1.00
	24.59	B	N							
	ATOM	3490	CA	ALA	B	46	-3.327	37.441	-9.309	1.00
	23.90	B	C							
25	ATOM	3491	CB	ALA	B	46	-4.271	37.895	-8.229	1.00
	23.95	B	C							
	ATOM	3492	C	ALA	B	46	-4.015	36.426	-10.216	1.00
	23.75	B	C							
30	ATOM	3493	O	ALA	B	46	-4.777	36.788	-11.103	1.00
	22.67	B	O							
	ATOM	3494	N	GLN	B	47	-3.717	35.150	-9.982	1.00
	23.77	B	N							

	ATOM	3495	CA	GLN	B	47	-4.438	34.035	-10.568	1.00
	24.59	B	C							
	ATOM	3496	CB	GLN	B	47	-3.479	32.976	-11.105	1.00
	25.29	B	C							
5	ATOM	3497	CG	GLN	B	47	-2.425	33.498	-12.080	1.00
	28.88	B	C							
	ATOM	3498	CD	GLN	B	47	-3.025	33.975	-13.393	1.00
	35.56	B	C							
10	ATOM	3499	OE1	GLN	B	47	-3.624	33.176	-14.144	1.00
	40.01	B	O							
	ATOM	3500	NE2	GLN	B	47	-2.869	35.278	-13.686	1.00
	38.46	B	N							
	ATOM	3501	C	GLN	B	47	-5.298	33.425	-9.460	1.00
	23.84	B	C							
15	ATOM	3502	O	GLN	B	47	-4.786	32.790	-8.517	1.00
	24.12	B	O							
	ATOM	3503	N	ILE	B	48	-6.597	33.644	-9.559	1.00
	22.91	B	N							
20	ATOM	3504	CA	ILE	B	48	-7.502	33.329	-8.463	1.00
	23.01	B	C							
	ATOM	3505	CB	ILE	B	48	-8.486	34.462	-8.235	1.00
	22.88	B	C							
	ATOM	3506	CG1	ILE	B	48	-7.708	35.747	-7.988	1.00
	22.10	B	C							
25	ATOM	3507	CD1	ILE	B	48	-8.568	36.992	-7.917	1.00
	22.38	B	C							
	ATOM	3508	CG2	ILE	B	48	-9.391	34.161	-7.036	1.00
	21.57	B	C							
30	ATOM	3509	C	ILE	B	48	-8.230	32.047	-8.746	1.00
	23.69	B	C							
	ATOM	3510	O	ILE	B	48	-8.685	31.820	-9.877	1.00
	23.31	B	O							

	ATOM	3511	N	ILE	B	49	-8.277	31.206	-7.716	1.00
	23.55	B	N							
	ATOM	3512	CA	ILE	B	49	-8.894	29.894	-7.746	1.00
	24.95	B	C							
5	ATOM	3513	CB	ILE	B	49	-7.803	28.812	-7.480	1.00
	26.22	B	C							
	ATOM	3514	CG1	ILE	B	49	-6.723	28.868	-8.575	1.00
	29.02	B	C							
10	ATOM	3515	CD1	ILE	B	49	-7.264	28.733	-9.982	1.00
	29.18	B	C							
	ATOM	3516	CG2	ILE	B	49	-8.409	27.422	-7.364	1.00
	28.74	B	C							
	ATOM	3517	C	ILE	B	49	-9.903	29.851	-6.610	1.00
	23.74	B	C							
15	ATOM	3518	O	ILE	B	49	-9.620	30.348	-5.511	1.00
	24.09	B	O							
	ATOM	3519	N	VAL	B	50	-11.045	29.224	-6.847	1.00
	22.75	B	N							
20	ATOM	3520	CA	VAL	B	50	-12.088	29.110	-5.838	1.00
	22.00	B	C							
	ATOM	3521	CB	VAL	B	50	-13.441	29.682	-6.364	1.00
	21.55	B	C							
	ATOM	3522	CG1	VAL	B	50	-14.583	29.378	-5.388	1.00
	22.01	B	C							
25	ATOM	3523	CG2	VAL	B	50	-13.338	31.190	-6.581	1.00
	21.04	B	C							
	ATOM	3524	C	VAL	B	50	-12.273	27.639	-5.439	1.00
	21.99	B	C							
30	ATOM	3525	O	VAL	B	50	-12.375	26.780	-6.291	1.00
	21.98	B	O							
	ATOM	3526	N	LEU	B	51	-12.318	27.363	-4.141	1.00
	21.70	B	N							

	ATOM 22.26	3527 B	CA C	LEU B	51	-12.460	26.003	-3.643	1.00
	ATOM 22.70	3528 B	CB C	LEU B	51	-11.110	25.407	-3.219	1.00
5	ATOM 25.11	3529 B	CG C	LEU B	51	-10.067	25.113	-4.267	1.00
	ATOM 25.85	3530 B	CD1 C	LEU B	51	-8.762	24.764	-3.495	1.00
10	ATOM 27.79	3531 B	CD2 C	LEU B	51	-10.513	23.968	-5.183	1.00
	ATOM 21.80	3532 B	C C	LEU B	51	-13.312	25.997	-2.406	1.00
	ATOM 21.46	3533 B	O O	LEU B	51	-13.289	26.962	-1.646	1.00
15	ATOM 21.76	3534 B	N N	PRO B	52	-14.006	24.886	-2.163	1.00
	ATOM 22.13	3535 B	CA C	PRO B	52	-14.750	24.709	-0.921	1.00
20	ATOM 23.06	3536 B	CB C	PRO B	52	-15.340	23.290	-1.071	1.00
	ATOM 22.20	3537 B	CG C	PRO B	52	-15.389	23.059	-2.525	1.00
	ATOM 22.25	3538 B	CD C	PRO B	52	-14.145	23.724	-3.058	1.00
25	ATOM 22.83	3539 B	C C	PRO B	52	-13.836	24.809	0.290	1.00
	ATOM 22.05	3540 B	O O	PRO B	52	-12.682	24.367	0.252	1.00
30	ATOM 23.43	3541 B	N N	VAL B	53	-14.340	25.400	1.365	1.00
	ATOM 23.96	3542 B	CA C	VAL B	53	-13.579	25.504	2.581	1.00

	ATOM	3543	CB	VAL	B	53	-14.297	26.368	3.643	1.00
	24.41	B	C							
	ATOM	3544	CG1	VAL	B	53	-15.583	25.692	4.134	1.00
	25.13	B	C							
5	ATOM	3545	CG2	VAL	B	53	-13.360	26.671	4.805	1.00
	25.93	B	C							
	ATOM	3546	C	VAL	B	53	-13.324	24.083	3.068	1.00
	24.12	B	C							
10	ATOM	3547	O	VAL	B	53	-14.153	23.193	2.859	1.00
	24.69	B	O							
	ATOM	3548	N	GLY	B	54	-12.158	23.867	3.657	1.00
	22.87	B	N							
	ATOM	3549	CA	GLY	B	54	-11.765	22.548	4.117	1.00
	22.48	B	C							
15	ATOM	3550	C	GLY	B	54	-11.067	21.662	3.092	1.00
	21.22	B	C							
	ATOM	3551	O	GLY	B	54	-10.597	20.606	3.453	1.00
	21.63	B	O							
20	ATOM	3552	N	THR	B	55	-10.977	22.091	1.837	1.00
	20.24	B	N							
	ATOM	3553	CA	THR	B	55	-10.295	21.324	0.809	1.00
	19.46	B	C							
	ATOM	3554	CB	THR	B	55	-10.469	22.006	-0.573	1.00
	19.86	B	C							
25	ATOM	3555	OG1	THR	B	55	-11.866	22.158	-0.875	1.00
	22.41	B	O							
	ATOM	3556	CG2	THR	B	55	-9.957	21.139	-1.701	1.00
	19.94	B	C							
30	ATOM	3557	C	THR	B	55	-8.788	21.125	1.077	1.00
	17.93	B	C							
	ATOM	3558	O	THR	B	55	-8.057	22.042	1.417	1.00
	16.91	B	O							

	ATOM 17.04	3559 B	N N	ILE B	56	-8.336	19.911	0.849	1.00
	ATOM 16.44	3560 B	CA C	ILE B	56	-6.929	19.571	0.943	1.00
5	ATOM 15.71	3561 B	CB C	ILE B	56	-6.800	18.076	1.232	1.00
	ATOM 17.41	3562 B	CG1 C	ILE B	56	-7.439	17.782	2.600	1.00
10	ATOM 17.17	3563 B	CD1 C	ILE B	56	-7.353	16.319	3.098	1.00
	ATOM 16.77	3564 B	CG2 C	ILE B	56	-5.347	17.684	1.247	1.00
	ATOM 16.51	3565 B	C C	ILE B	56	-6.217	19.981	-0.336	1.00
15	ATOM 17.03	3566 B	O O	ILE B	56	-6.701	19.691	-1.434	1.00
	ATOM 15.94	3567 B	N N	VAL B	57	-5.088	20.678	-0.203	1.00
20	ATOM 16.45	3568 B	CA C	VAL B	57	-4.342	21.200	-1.361	1.00
	ATOM 16.21	3569 B	CB C	VAL B	57	-4.511	22.726	-1.488	1.00
	ATOM 16.73	3570 B	CG1 C	VAL B	57	-6.012	23.092	-1.672	1.00
25	ATOM 18.16	3571 B	CG2 C	VAL B	57	-3.991	23.435	-0.236	1.00
	ATOM 16.63	3572 B	C C	VAL B	57	-2.853	20.910	-1.205	1.00
30	ATOM 16.42	3573 B	O O	VAL B	57	-2.393	20.624	-0.099	1.00
	ATOM 17.06	3574 B	N N	THR B	58	-2.106	20.982	-2.299	1.00

	ATOM	3575	CA	THR	B	58	-0.658	20.801	-2.247	1.00
	16.63	B	C							
	ATOM	3576	CB	THR	B	58	-0.069	20.712	-3.654	1.00
	17.18	B	C							
5	ATOM	3577	OG1	THR	B	58	-0.660	21.718	-4.494	1.00
	15.16	B	O							
	ATOM	3578	CG2	THR	B	58	-0.423	19.426	-4.292	1.00
	19.58	B	C							
10	ATOM	3579	C	THR	B	58	-0.093	22.017	-1.536	1.00
	16.72	B	C							
	ATOM	3580	O	THR	B	58	-0.756	23.071	-1.492	1.00
	16.30	B	O							
	ATOM	3581	N	MET	B	59	1.103	21.885	-0.960	1.00
	16.38	B	N							
15	ATOM	3582	CA	MET	B	59	1.692	22.982	-0.180	1.00
	16.07	B	C							
	ATOM	3583	CB	MET	B	59	1.960	22.552	1.254	1.00
	15.92	B	C							
20	ATOM	3584	CG	MET	B	59	0.668	22.365	2.012	1.00
	16.14	B	C							
	ATOM	3585	SD	MET	B	59	-0.197	23.961	2.251	1.00
	17.09	B	S							
	ATOM	3586	CE	MET	B	59	-1.612	23.424	3.218	1.00
	17.23	B	C							
25	ATOM	3587	C	MET	B	59	2.911	23.607	-0.816	1.00
	15.83	B	C							
	ATOM	3588	O	MET	B	59	3.884	23.983	-0.134	1.00
	15.99	B	O							
30	ATOM	3589	N	GLU	B	60	2.837	23.794	-2.127	1.00
	15.11	B	N							
	ATOM	3590	CA	GLU	B	60	3.838	24.609	-2.795	1.00
	15.22	B	C							

	ATOM 15.39	3591 B	CB C	GLU B	60	4.155	24.079	-4.187	1.00
	ATOM 15.29	3592 B	CG C	GLU B	60	3.299	24.609	-5.334	1.00
5	ATOM 19.22	3593 B	CD C	GLU B	60	1.845	24.166	-5.270	1.00
	ATOM 18.05	3594 B	OE1 O	GLU B	60	1.435	23.486	-4.308	1.00
10	ATOM 18.12	3595 B	OE2 O	GLU B	60	1.087	24.526	-6.195	1.00
	ATOM 15.50	3596 B	C C	GLU B	60	3.344	26.081	-2.771	1.00
	ATOM 15.17	3597 B	O O	GLU B	60	2.133	26.356	-2.798	1.00
15	ATOM 16.00	3598 B	N N	TYR B	61	4.292	27.011	-2.721	1.00
	ATOM 17.37	3599 B	CA C	TYR B	61	3.982	28.431	-2.654	1.00
20	ATOM 17.67	3600 B	CB C	TYR B	61	4.938	29.138	-1.699	1.00
	ATOM 18.81	3601 B	CG C	TYR B	61	4.671	30.623	-1.493	1.00
	ATOM 21.63	3602 B	CD1 C	TYR B	61	5.474	31.572	-2.103	1.00
25	ATOM 21.96	3603 B	CE1 C	TYR B	61	5.233	32.895	-1.943	1.00
	ATOM 22.89	3604 B	CZ C	TYR B	61	4.207	33.299	-1.134	1.00
30	ATOM 29.91	3605 B	OH O	TYR B	61	4.007	34.644	-0.972	1.00
	ATOM 20.81	3606 B	CE2 C	TYR B	61	3.407	32.394	-0.507	1.00

	ATOM	3607	CD2	TYR	B	61	3.637	31.059	-0.697	1.00
	19.36	B	C							
	ATOM	3608	C	TYR	B	61	4.067	29.037	-4.048	1.00
	18.22	B	C							
5	ATOM	3609	O	TYR	B	61	5.126	29.041	-4.654	1.00
	18.04	B	O							
	ATOM	3610	N	ARG	B	62	2.943	29.531	-4.564	1.00
	19.75	B	N							
10	ATOM	3611	CA	ARG	B	62	2.938	30.226	-5.861	1.00
	21.16	B	C							
	ATOM	3612	CB	ARG	B	62	1.909	29.625	-6.814	1.00
	21.92	B	C							
	ATOM	3613	CG	ARG	B	62	2.189	28.185	-7.196	1.00
	25.65	B	C							
15	ATOM	3614	CD	ARG	B	62	1.385	27.694	-8.421	1.00
	29.39	B	C							
	ATOM	3615	NE	ARG	B	62	1.516	26.235	-8.639	1.00
	32.04	B	N							
20	ATOM	3616	CZ	ARG	B	62	0.982	25.593	-9.675	1.00
	33.94	B	C							
	ATOM	3617	NH1	ARG	B	62	1.129	24.287	-9.798	1.00
	37.42	B	N							
	ATOM	3618	NH2	ARG	B	62	0.292	26.255	-10.586	1.00
	34.66	B	N							
25	ATOM	3619	C	ARG	B	62	2.619	31.687	-5.652	1.00
	21.86	B	C							
	ATOM	3620	O	ARG	B	62	1.491	32.033	-5.296	1.00
	21.34	B	O							
30	ATOM	3621	N	ILE	B	63	3.609	32.547	-5.894	1.00
	23.01	B	N							
	ATOM	3622	CA	ILE	B	63	3.503	33.950	-5.502	1.00
	24.71	B	C							

	ATOM	3623	CB	ILE	B	63	4.824	34.707	-5.709	1.00
	25.05	B	C							
	ATOM	3624	CG1	ILE	B	63	4.790	36.033	-4.919	1.00
	28.83	B	C							
5	ATOM	3625	CD1	ILE	B	63	6.158	36.609	-4.546	1.00
	31.61	B	C							
	ATOM	3626	CG2	ILE	B	63	5.047	34.966	-7.207	1.00
	26.58	B	C							
10	ATOM	3627	C	ILE	B	63	2.367	34.699	-6.216	1.00
	24.34	B	C							
	ATOM	3628	O	ILE	B	63	1.860	35.675	-5.672	1.00
	25.45	B	O							
	ATOM	3629	N	ASP	B	64	1.961	34.240	-7.398	1.00
	24.15	B	N							
15	ATOM	3630	CA	ASP	B	64	0.901	34.919	-8.153	1.00
	24.63	B	C							
	ATOM	3631	CB	BASP	B	64	1.214	34.889	-9.664	0.40
	24.94	B	C							
20	ATOM	3632	CB	AASP	B	64	1.201	34.873	-9.650	0.60
	24.96	B	C							
	ATOM	3633	CG	BASP	B	64	0.987	33.514	-10.307	0.40
	25.65	B	C							
	ATOM	3634	CG	AASP	B	64	2.403	35.712	-10.026	0.60
	25.91	B	C							
25	ATOM	3635	OD1	BASP	B	64	0.745	33.465	-11.536	0.40
	27.17	B	O							
	ATOM	3636	OD1A	AASP	B	64	3.136	35.290	-10.950	0.60
	27.52	B	O							
30	ATOM	3637	OD2	BASP	B	64	1.054	32.426	-9.686	0.40
	28.49	B	O							
	ATOM	3638	OD2A	AASP	B	64	2.704	36.782	-9.439	0.60
	26.67	B	O							

	ATOM	3639	C	ASP	B	64	-0.514	34.361	-7.896	1.00
	24.47	B	C							
	ATOM	3640	O	ASP	B	64	-1.515	34.928	-8.392	1.00
	24.83	B	O							
5	ATOM	3641	N	ARG	B	65	-0.601	33.269	-7.136	1.00
	21.92	B	N							
	ATOM	3642	CA	ARG	B	65	-1.876	32.615	-6.893	1.00
	21.12	B	C							
10	ATOM	3643	CB	ARG	B	65	-1.677	31.101	-6.737	1.00
	19.95	B	C							
	ATOM	3644	CG	ARG	B	65	-2.946	30.305	-6.463	1.00
	18.99	B	C							
	ATOM	3645	CD	ARG	B	65	-2.730	28.808	-6.572	1.00
	19.09	B	C							
15	ATOM	3646	NE	ARG	B	65	-1.784	28.369	-5.554	1.00
	18.66	B	N							
	ATOM	3647	CZ	ARG	B	65	-1.130	27.214	-5.534	1.00
	19.41	B	C							
20	ATOM	3648	NH1	ARG	B	65	-1.279	26.300	-6.470	1.00
	19.74	B	N							
	ATOM	3649	NH2	ARG	B	65	-0.311	26.963	-4.522	1.00
	21.82	B	N							
	ATOM	3650	C	ARG	B	65	-2.556	33.168	-5.662	1.00
	20.36	B	C							
25	ATOM	3651	O	ARG	B	65	-1.896	33.515	-4.682	1.00
	21.06	B	O							
	ATOM	3652	N	VAL	B	66	-3.875	33.284	-5.727	1.00
	20.04	B	N							
30	ATOM	3653	CA	VAL	B	66	-4.692	33.540	-4.560	1.00
	19.79	B	C							
	ATOM	3654	CB	VAL	B	66	-5.266	34.962	-4.510	1.00
	19.88	B	C							

	ATOM	3655	CG1	VAL	B	66	-6.036	35.160	-3.204	1.00
	21.06	B	C							
	ATOM	3656	CG2	VAL	B	66	-4.194	36.004	-4.607	1.00
	20.96	B	C							
5	ATOM	3657	C	VAL	B	66	-5.846	32.525	-4.551	1.00
	20.19	B	C							
	ATOM	3658	O	VAL	B	66	-6.733	32.512	-5.444	1.00
	20.12	B	O							
10	ATOM	3659	N	ARG	B	67	-5.832	31.654	-3.557	1.00
	20.01	B	N							
	ATOM	3660	CA	ARG	B	67	-6.916	30.713	-3.394	1.00
	20.45	B	C							
	ATOM	3661	CB	ARG	B	67	-6.416	29.437	-2.740	1.00
	20.71	B	C							
15	ATOM	3662	CG	ARG	B	67	-5.572	28.538	-3.626	1.00
	21.28	B	C							
	ATOM	3663	CD	ARG	B	67	-5.471	27.144	-3.016	1.00
	23.63	B	C							
20	ATOM	3664	NE	ARG	B	67	-4.539	26.204	-3.632	1.00
	22.50	B	N							
	ATOM	3665	CZ	ARG	B	67	-3.326	25.921	-3.160	1.00
	24.19	B	C							
	ATOM	3666	NH1	ARG	B	67	-2.589	24.992	-3.759	1.00
	22.65	B	N							
25	ATOM	3667	NH2	ARG	B	67	-2.837	26.571	-2.106	1.00
	22.06	B	N							
	ATOM	3668	C	ARG	B	67	-8.001	31.368	-2.543	1.00
	20.49	B	C							
30	ATOM	3669	O	ARG	B	67	-7.704	31.990	-1.529	1.00
	20.17	B	O							
	ATOM	3670	N	LEU	B	68	-9.255	31.253	-2.970	1.00
	20.39	B	N							

	ATOM 21.05	3671 B	CA C	LEU B	68	-10.373	31.705	-2.148	1.00
	ATOM 21.11	3672 B	CB C	LEU B	68	-11.323	32.604	-2.957	1.00
5	ATOM 21.59	3673 B	CG C	LEU B	68	-10.701	33.830	-3.627	1.00
	ATOM 22.82	3674 B	CD1 C	LEU B	68	-11.745	34.523	-4.508	1.00
10	ATOM 22.44	3675 B	CD2 C	LEU B	68	-10.187	34.785	-2.595	1.00
	ATOM 21.12	3676 B	C C	LEU B	68	-11.132	30.493	-1.648	1.00
	ATOM 21.87	3677 B	O O	LEU B	68	-11.663	29.709	-2.432	1.00
15	ATOM 21.61	3678 B	N N	PHE B	69	-11.209	30.345	-0.345	1.00
	ATOM 21.97	3679 B	CA C	PHE B	69	-11.937	29.226	0.233	1.00
20	ATOM 22.17	3680 B	CB C	PHE B	69	-11.151	28.647	1.422	1.00
	ATOM 19.89	3681 B	CG C	PHE B	69	-9.896	27.905	1.028	1.00
	ATOM 21.41	3682 B	CD1 C	PHE B	69	-9.938	26.557	0.737	1.00
25	ATOM 20.29	3683 B	CE1 C	PHE B	69	-8.788	25.862	0.370	1.00
	ATOM 21.78	3684 B	CZ C	PHE B	69	-7.598	26.525	0.290	1.00
30	ATOM 21.52	3685 B	CE2 C	PHE B	69	-7.542	27.879	0.575	1.00
	ATOM 19.33	3686 B	CD2 C	PHE B	69	-8.691	28.557	0.950	1.00

	ATOM 23.11	3687 B	C C	PHE B	69	-13.321	29.725	0.664	1.00
	ATOM 22.87	3688 B	O O	PHE B	69	-13.414	30.651	1.506	1.00
5	ATOM 24.00	3689 B	N N	VAL B	70	-14.371	29.105	0.111	1.00
	ATOM 25.82	3690 B	CA C	VAL B	70	-15.755	29.578	0.289	1.00
10	ATOM 25.72	3691 B	CB C	VAL B	70	-16.442	29.958	-1.054	1.00
	ATOM 26.70	3692 B	CG1 C	VAL B	70	-15.686	31.063	-1.756	1.00
	ATOM 26.63	3693 B	CG2 C	VAL B	70	-16.599	28.756	-1.958	1.00
15	ATOM 26.63	3694 B	C C	VAL B	70	-16.691	28.602	0.996	1.00
	ATOM 27.14	3695 B	O O	VAL B	70	-16.532	27.380	0.899	1.00
20	ATOM 27.52	3696 B	N N	ASP B	71	-17.664	29.155	1.714	1.00
	ATOM 29.00	3697 B	CA C	ASP B	71	-18.686	28.352	2.399	1.00
	ATOM 28.91	3698 B	CB C	ASP B	71	-19.247	29.132	3.591	1.00
25	ATOM 28.74	3699 B	CG C	ASP B	71	-20.019	30.392	3.171	1.00
	ATOM 29.94	3700 B	OD1 O	ASP B	71	-20.161	31.290	4.018	1.00
30	ATOM 27.69	3701 B	OD2 O	ASP B	71	-20.509	30.572	2.032	1.00
	ATOM 30.37	3702 B	C C	ASP B	71	-19.796	27.931	1.413	1.00

	ATOM	3703	O	ASP	B	71	-19.646	28.098	0.217	1.00
	29.90	B	O							
	ATOM	3704	N	LYS	B	72	-20.898	27.376	1.906	1.00
	33.42	B	N							
5	ATOM	3705	CA	LYS	B	72	-21.949	26.822	1.022	1.00
	34.98	B	C							
	ATOM	3706	CB	LYS	B	72	-22.951	26.004	1.834	1.00
	35.44	B	C							
10	ATOM	3707	CG	LYS	B	72	-22.190	24.925	2.916	0.00
	40.00	B	C							
	ATOM	3708	CD	LYS	B	72	-22.489	23.435	2.595	0.00
	40.00	B	C							
	ATOM	3709	CE	LYS	B	72	-21.240	22.528	2.667	0.00
	40.00	B	C							
15	ATOM	3710	NZ	LYS	B	72	-21.120	21.662	1.456	0.00
	40.00	B	N							
	ATOM	3711	C	LYS	B	72	-22.709	27.904	0.261	1.00
	36.38	B	C							
20	ATOM	3712	O	LYS	B	72	-23.332	27.627	-0.766	1.00
	37.77	B	O							
	ATOM	3713	N	LEU	B	73	-22.640	29.138	0.753	1.00
	37.07	B	N							
	ATOM	3714	CA	LEU	B	73	-23.306	30.286	0.114	1.00
	37.22	B	C							
25	ATOM	3715	CB	LEU	B	73	-23.759	31.265	1.201	1.00
	37.50	B	C							
	ATOM	3716	CG	LEU	B	73	-24.711	30.678	2.254	1.00
	40.20	B	C							
30	ATOM	3717	CD1	LEU	B	73	-25.387	31.796	3.053	1.00
	41.53	B	C							
	ATOM	3718	CD2	LEU	B	73	-25.782	29.775	1.612	1.00
	41.89	B	C							

	ATOM	3719	C	LEU	B	73	-22.406	31.008	-0.890	1.00
	36.59	B	C							
	ATOM	3720	O	LEU	B	73	-22.781	32.029	-1.482	1.00
	36.18	B	O							
5	ATOM	3721	N	ASP	B	74	-21.203	30.468	-1.076	1.00
	36.33	B	N							
	ATOM	3722	CA	ASP	B	74	-20.192	31.084	-1.923	1.00
	35.65	B	C							
10	ATOM	3723	CB	ASP	B	74	-20.709	31.252	-3.342	1.00
	36.81	B	C							
	ATOM	3724	CG	ASP	B	74	-20.063	30.283	-4.286	1.00
	40.36	B	C							
	ATOM	3725	OD1	ASP	B	74	-19.429	30.756	-5.259	1.00
	45.75	B	O							
15	ATOM	3726	OD2	ASP	B	74	-20.108	29.032	-4.101	1.00
	45.61	B	O							
	ATOM	3727	C	ASP	B	74	-19.646	32.399	-1.381	1.00
	33.94	B	C							
20	ATOM	3728	O	ASP	B	74	-19.147	33.249	-2.136	1.00
	34.59	B	O							
	ATOM	3729	N	ASN	B	75	-19.696	32.546	-0.066	1.00
	31.85	B	N							
	ATOM	3730	CA	ASN	B	75	-19.000	33.634	0.597	1.00
	30.66	B	C							
25	ATOM	3731	CB	ASN	B	75	-19.877	34.185	1.714	1.00
	30.45	B	C							
	ATOM	3732	CG	ASN	B	75	-21.170	34.793	1.176	1.00
	30.77	B	C							
30	ATOM	3733	OD1	ASN	B	75	-21.169	35.401	0.102	1.00
	30.57	B	O							
	ATOM	3734	ND2	ASN	B	75	-22.275	34.615	1.907	1.00
	30.32	B	N							

	ATOM 29.26	3735 B	C C	ASN B	75	-17.628	33.213	1.127	1.00
	ATOM 29.07	3736 B	O O	ASN B	75	-17.433	32.073	1.553	1.00
5	ATOM 27.83	3737 B	N N	ILE B	76	-16.685	34.143	1.086	1.00
	ATOM 26.88	3738 B	CA C	ILE B	76	-15.337	33.893	1.540	1.00
10	ATOM 26.51	3739 B	CB C	ILE B	76	-14.511	35.182	1.455	1.00
	ATOM 26.61	3740 B	CG1 C	ILE B	76	-14.474	35.737	0.020	1.00
	ATOM 26.87	3741 B	CD1 C	ILE B	76	-14.130	34.728	-1.039	1.00
15	ATOM 25.62	3742 B	CG2 C	ILE B	76	-13.137	34.927	1.993	1.00
	ATOM 26.59	3743 B	C C	ILE B	76	-15.401	33.382	2.993	1.00
20	ATOM 26.12	3744 B	O O	ILE B	76	-15.994	34.017	3.838	1.00
	ATOM 26.58	3745 B	N N	ALA B	77	-14.795	32.237	3.263	1.00
	ATOM 26.79	3746 B	CA C	ALA B	77	-14.899	31.582	4.576	1.00
25	ATOM 26.56	3747 B	CB C	ALA B	77	-15.129	30.088	4.386	1.00
	ATOM 26.89	3748 B	C C	ALA B	77	-13.670	31.815	5.467	1.00
30	ATOM 27.73	3749 B	O O	ALA B	77	-13.764	31.751	6.677	1.00
	ATOM 26.32	3750 B	N N	GLU B	78	-12.518	32.072	4.871	1.00

	ATOM 26.33	3751 B	CA C	GLU B	78	-11.355	32.446	5.647	1.00
	ATOM 26.80	3752 B	CB C	GLU B	78	-10.508	31.216	6.041	1.00
5	ATOM 27.82	3753 B	CG C	GLU B	78	-10.106	30.290	4.921	1.00
	ATOM 28.92	3754 B	CD C	GLU B	78	-9.956	28.827	5.352	1.00
10	ATOM 36.40	3755 B	OE1 O	GLU B	78	-9.785	28.493	6.559	1.00
	ATOM 28.50	3756 B	OE2 O	GLU B	78	-10.001	27.977	4.472	1.00
	ATOM 25.94	3757 B	C C	GLU B	78	-10.530	33.478	4.895	1.00
15	ATOM 25.71	3758 B	O O	GLU B	78	-10.807	33.805	3.712	1.00
	ATOM 24.85	3759 B	N N	VAL B	79	-9.527	33.996	5.594	1.00
20	ATOM 24.88	3760 B	CA C	VAL B	79	-8.712	35.088	5.102	1.00
	ATOM 25.77	3761 B	CB C	VAL B	79	-7.692	35.578	6.167	1.00
	ATOM 25.38	3762 B	CG1 C	VAL B	79	-6.814	36.672	5.583	1.00
25	ATOM 26.10	3763 B	CG2 C	VAL B	79	-8.396	36.073	7.456	1.00
	ATOM 24.07	3764 B	C C	VAL B	79	-7.957	34.652	3.835	1.00
30	ATOM 23.32	3765 B	O O	VAL B	79	-7.137	33.742	3.883	1.00
	ATOM 23.27	3766 B	N N	PRO B	80	-8.275	35.271	2.699	1.00

	ATOM	3767	CA	PRO	B	80	-7.533	35.029	1.466	1.00
	22.93	B	C							
	ATOM	3768	CB	PRO	B	80	-8.296	35.856	0.426	1.00
	23.15	B	C							
5	ATOM	3769	CG	PRO	B	80	-9.645	36.042	1.005	1.00
	23.83	B	C							
	ATOM	3770	CD	PRO	B	80	-9.404	36.194	2.480	1.00
	23.67	B	C							
10	ATOM	3771	C	PRO	B	80	-6.101	35.512	1.601	1.00
	22.05	B	C							
	ATOM	3772	O	PRO	B	80	-5.891	36.588	2.136	1.00
	20.76	B	O							
	ATOM	3773	N	ARG	B	81	-5.147	34.691	1.190	1.00
	21.54	B	N							
15	ATOM	3774	CA	ARG	B	81	-3.765	35.135	1.074	1.00
	22.93	B	C							
	ATOM	3775	CB	BARG	B	81	-2.937	34.683	2.298	0.40
	22.99	B	C							
20	ATOM	3776	CB	AARG	B	81	-2.865	34.764	2.275	0.60
	23.27	B	C							
	ATOM	3777	CG	BARG	B	81	-3.684	34.672	3.645	0.40
	24.27	B	C							
	ATOM	3778	CG	AARG	B	81	-3.278	33.619	3.175	0.60
	25.79	B	C							
25	ATOM	3779	CD	BARG	B	81	-2.996	33.818	4.744	0.40
	26.79	B	C							
	ATOM	3780	CD	AARG	B	81	-2.615	33.723	4.575	0.60
	27.67	B	C							
30	ATOM	3781	NE	BARG	B	81	-3.975	33.234	5.664	0.40
	28.96	B	N							
	ATOM	3782	NE	AARG	B	81	-3.283	32.907	5.581	0.60
	29.38	B	N							

	ATOM	3783	CZ	BARG	B	81	-4.567	32.053	5.508	0.40
	29.28	B	C							
	ATOM	3784	CZ	AARG	B	81	-3.934	33.381	6.642	0.60
	30.17	B	C							
5	ATOM	3785	NH1	BARG	B	81	-4.284	31.274	4.471	0.40
	31.06	B	N							
	ATOM	3786	NH1	AARG	B	81	-4.020	34.680	6.867	0.60
	31.08	B	N							
10	ATOM	3787	NH2	BARG	B	81	-5.448	31.645	6.408	0.40
	30.62	B	N							
	ATOM	3788	NH2	AARG	B	81	-4.510	32.545	7.486	0.60
	31.16	B	N							
	ATOM	3789	C	ARG	B	81	-3.115	34.616	-0.178	1.00
	21.97	B	C							
15	ATOM	3790	O	ARG	B	81	-3.560	33.632	-0.761	1.00
	21.68	B	O							
	ATOM	3791	N	VAL	B	82	-2.029	35.286	-0.559	1.00
	20.91	B	N							
20	ATOM	3792	CA	VAL	B	82	-1.224	34.884	-1.679	1.00
	21.03	B	C							
	ATOM	3793	CB	VAL	B	82	-0.126	35.943	-1.952	1.00
	21.89	B	C							
	ATOM	3794	CG1	VAL	B	82	0.869	35.435	-2.906	1.00
	22.93	B	C							
25	ATOM	3795	CG2	VAL	B	82	-0.734	37.243	-2.483	1.00
	21.44	B	C							
	ATOM	3796	C	VAL	B	82	-0.583	33.532	-1.371	1.00
	20.69	B	C							
30	ATOM	3797	O	VAL	B	82	-0.235	33.255	-0.221	1.00
	19.36	B	O							
	ATOM	3798	N	GLY	B	83	-0.469	32.694	-2.389	1.00
	19.91	B	N							

	ATOM	3799	CA	GLY	B	83	0.382	31.525	-2.331	1.00
	20.16	B	C							
	ATOM	3800	C	GLY	B	83	-0.236	30.295	-2.955	1.00
	20.11	B	C							
5	ATOM	3801	O	GLY	B	83	-1.416	30.328	-3.319	1.00
	20.36	B	O							
	ATOM	3802	OXT	GLY	B	83	0.468	29.294	-3.104	1.00
	18.79	B	O							

10